Census

Recensement

Canada 1986





Statistique Canada

Census Recensement

Canada 1986

Reference

USER'S GUIDE TO 1986 CENSUS DATA ON INDUSTRY

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March 1990

Price: Canada, \$23.00 Other Countries, \$24.00

Catalogue 99-110E

ISBN-0-660-13342-3

Ottawa



ACKNOWLEDGEMENTS

This document was prepared by Art Gardner of the Labour and Household Surveys Analysis Division.

The author would like to thank the staff of Labour Characteristics Section, in particular Patricia Grainger, Bob McCrea, Lise Rollin and Line Beaulieu Ouimet for their assistance and review.

The author is also most grateful to the staff of the Census Operations Division who edited and produced the text, namely Nicole Charbonneau, Josée Dufresne and Louise Gagnon.



TABLE OF CONTENTS

			P	age
	ı.	Introdu	etion	7
	II.	Overvi	ew of the Industry Processing Cycle	9
I	II.	Summa	ry of Non-specific Data Quality Issues	13
I	v.	Summa	ry of Issues Specific to Industry Data Based on the 1980 SIC	17
	v.	1980 SI	C - Detailed Examination	23
1	VI.	Summa	ry of Issues Specific to Industry Data Based on the 1970 SIC	53
V	II.	1970 SI	C - Detailed Examination	55
VI	II.	Histori	cal Considerations Regarding Census Industry Data	77
API	PEN	DIX A.	Tables	85
APF	PEN	DIX B.	1970 Standard Industrial Classification (SIC) Detailed Legend	101
APF	PEN	DIX C.	1980 Standard Industrial Classification (SIC) Detailed Legend	109
APF	EN	DIX D.	Other Industry Data Products	121
List	of	Tables		
1.			n (Number and Percentage) of Imputed Values by Industry p, Canada, 1986 Census	87
2.	Bre	akdown	Who Worked since January 1, 1985 by Detailed for Government Services Division, for Canada, and Territories	90
3.			n of 1980 SIC Counts for the 1981 and 1986 Censuses 86 LFS	92
4.	Ind sin	ustry Co	vercentage Change of 1981 and 1986 Census ounts (1970 SIC) for All Persons Who Worked ury 1 of the Previous Year (1980 or 1985) by a	97



I. INTRODUCTION

For purposes of the 1986 Census, there are two industry variables, industry based on the 1980 Standard Industrial Classification (SIC) and industry based on the 1970 SIC.

The standard definition for these variables is:

Industry

Refers to the general nature of the business carried out in the establishment where the person worked, as indicated by the name of the employer and the kind of business, industry or service. Data are available for persons 15 years of age and over, excluding institutional residents. If not employed in the week prior to enumeration, the information relates to the job of longest duration since January 1, 1985. Persons with two or more jobs were to report the information for the job at which they worked the most hours.

Census industry data based on the 1980 Standard Industrial Classification have three levels of aggregation. There are 18 divisions (labelled A to R) which are subdivided into 75 major groups which are, in turn, subdivided into 296 detailed groups.

Census industry data based on the 1970 Standard Industrial Classification also have three levels of aggregation. There are 12 divisions which are subdivided into 55 major groups which are, in turn, subdivided into 286 detailed classes.

After a review of the industry processing cycle, the structure of this report follows the pattern of an outline of issues not specific to either SIC classification, followed by individual examination of industry based on the 1980 SIC and industry based on the 1970 SIC. The final chapter examines considerations required in historical comparisons of census industry data.

Much of the emphasis in this report will be on potential inconsistencies between census data and other data sources, as well as the identification of problems and solutions that were required in verifying the quality of the responses, coding and processing of the industry variable in the 1986 Census. Despite this critical approach, it should be noted that, in general, the quality of the 1986 industry data compares favourably with other census years and other data sources. Particularly for comparison of data sources for relatively small counts, i.e. less than 20,000 weighted responses, it should be remembered that the census sample of 1 in 5 is significantly larger than that of the other sources which were examined. For example, the Labour Force Survey sample of 1 in 300-400 leads to such weighting and sampling variability for these smaller counts that these results should be treated with caution. As expected, minor processing and data quality problems did arise from the increased coding detail required to obtain data based on the 1980 SIC and the need to use an intermediate coding structure in order to later recreate the two industry variables. The problems and difficulties which occurred as a consequence of this extra detail and more complex processing are offset by the availability of two industry variables (one comparable to historical industry data, the other comparable to more current data sources).

The following actions were taken before release of the 1986 industry data.

For industry based on the 1970 SIC, the data were released with the combination of two classes, 822 - Related health care institutions and 828 - Welfare organizations, into one class 822/828 - Related health care institutions and welfare services. This combining of classes was required because of the miscoding of a number of nursing homes (with and without personal health care) and old age homes. Further detail is given in Chapter VI, Summary of Issues Specific to Industry Data Based on the 1970 SIC.

For Industry based on the 1980 SIC, the combining of groups was done in three places:

Groups 091 - Service industries incidental to crude petroleum and natural gas and 092 - Service industries incidental to mining were combined into Group 091/092 - Service Industries Incidental to Mineral Extraction. This was required because of miscodes of companies in one of the Regional Office processing coding manuals (i.e. the List of Establishments). The error was particularly noticeable in Alberta.

Groups 401 - Residential building and development and 402 - Non-residential building and development were combined into Group 401/402 - Building, Developing and General Contracting Industries. This action was based on inconsistencies in the Labour Force Survey, 1986 Census and 1981 Census counts, as well as comments from coding consultants and Assistant Regional Processing Managers (ARPMs). The problem stemmed from the difficulty in coding to a level of precision higher than the degree of detail given by respondents.

An attempt to code government services to the full 3-digit group level was found to be unsuccessful. Seventeen 3-digit government codes were collapsed into five groups. This is the same level of coding that is done by the Labour Force Survey and is equivalent to the level of 1981 Census coding.

It should be noted that in these three instances where combining was required, these groups are equivalent to 1981 Census classes. In all cases, the level of detail of the responses given was not sufficient to provide good data.

More detailed information on these changes can be found in Chapter IV, Summary of Issues Specific to Industry Data Based on the 1980 SIC.

In addition to these points, Chapter III, Summary of Non-specific Data Quality Issues discusses some quality problems which did not require action (i.e. special notes or data manipulation) but which will be studied more fully before 1991.

II. OVERVIEW OF THE INDUSTRY PROCESSING CYCLE

This chapter is designed to give the reader some background on the steps involved in processing the industry variables in the 1986 Census. Besides summarizing some of the required stages, it will also identify several areas that needed analysis in a data quality context.

A. Regional Office Processing

1. Coding Structure

It was in Regional Office processing (ROP) that respondent information given on census questionnaires was translated into industry codes. There are two industry variables by which 1986 Census data are published (i.e. industry based on the 1970 Standard Industrial Classification (SIC) and industry based on the 1980 Standard Industrial Classification). However, in order to avoid double coding of industry responses, it was decided to use an intermediate coding structure and later reassign the coded data to the 1970 SIC or 1980 SIC as applicable. This often involved the creation of new codes which were in neither classification system, but which were added to real codes in both systems when the data were reorganized. This approach had been taken successfully with the occupation variable in 1981 and was repeated again for the occupation variable in 1986. The 1980 SIC was taken as the basis for preparing the intermediate classification but. because of the extreme differences between the 1970 and 1980 SICs, it was also necessary to modify the classification with the insertion of extra classes, in order to provide some continuity and structure. The new classification is usually referred to as the ICM classification, the name being taken from the Industrial Coding Manual (ICM), the principal ROP coding tool. To illustrate the increased level of detail and complexity, the total number of codes increased from 330 to 563 from 1981 to 1986.

2. Industrial Coding Manual (ICM)

The ICM was arranged in the same format as a SIC manual, with the classified index followed by a more descriptive analytical section and finally an alphabetical listing of all industry descriptions. Coders were instructed to search for descriptions in the analytical section rather than rely on the alphabetical list. since it contained cautions and instructions on industry coding. However, it was likely that many coders made more extensive use of the detailed alphabetical list than was recommended. In addition to these sections, which were similar to the SIC manuals, there was another section in the ICM which contained item descriptions for "comparison" codes or "dummy" codes. These were codes which did not fit into the structure of the ICM classification, but were required in order to recreate the 1970 and 1980 SICs. Unless specified by a particular ROP instruction, coders were expected to use other sections of the ICM in preference to these comparison codes, and to make use of these codes only when there was a direct or near direct word by word match. The tendency to use or not use these comparison codes was eventually a source of some error, since there was often a regional bias (supported by a particular coding consultant, Assistant Regional Processing Manager or coding supervisor). The overall usage of more codes. including comparison codes, will return as an issue several times in the examination of possible data quality problems, particularly in regard to coding. The second principal coding manual (i.e. the List of Establishments) also

generated data quality problems, although these were often of a different nature and were based on actual coding errors in the List.

3. List of Establishments (LOE)

This coding manual was based on exactly the same ICM codes as the Industrial Coding Manual and was created from a larger list of companies in Canada stored on the Business Register Master File. The LOE was the first manual searched by coders and, if an exact address and company name match was found, the code was entered on the questionnaire without using any other manuals. Of the major data files of industry data at Statistics Canada, the census is the only one which so thoroughly combines the two varieties of coding as is represented by the ICM (i.e. coding of individual responses to kind of business) and the LOE (i.e. coding of individual responses to name of company of employment). As will be seen, this mixed methodology leads to difficulty in finding data sources for comparison purposes. For example, the Survey of Employment, Payrolls and Hours (SEPH) is based on a survey of establishments and the information available to SEPH coders includes more complete financial information on sales of products and services of the same type than is available to the business register coders who produce the List of Establishments. On the other hand, Labour Force Survey coders base their coding primarily on descriptions of kind of business. It will be noted throughout the report that the combination of the two sources as used in the census has both advantages and disadvantages. Because the LOE leads to several coding errors that required "fixing" the data, there may be a tendency to emphasize the negative aspects, but the principal benefit (consistency and accuracy of coding) should not be overlooked. If possible, a full evaluation of the use of the LOE as a coding device will be undertaken before 1991 ROP procedures are finalized.

4. Consultants and ROP Debriefing

The introduction of coding consultants from Employment and Immigration Canada appeared to be a significant aid in the quality of ROP coding. In particular, the debriefing of the coding consultants and the Assistant Regional Processing Managers in Ottawa at the end of the ROP cycle led to some valuable insights into possible coding difficulties. Again, reference will be made throughout the document to cautions expressed by the consultants, and this additional information was often the extra factor which led to an adjustment of the data (e.g., combining classes to mask data quality problems at the class level). The technical communiqués requesting help in the solution of difficult cases were also a source of information when the quality of data was questioned. These communiqués were sent when coding consultants or Assistant Regional Processing Managers had exhausted all possible measures in attempting to code a response without the aid of Head Office staff, or when there appeared to be inconsistencies or errors in processing instructions or manuals.

B. Edit and Imputation (E & I)

At the E & I processing stage, industry data that had been transferred to magnetic tapes were processed to give complete "clean" data which were stored on a data base linking all household and person responses. For industry purposes, the process involved three main procedures. They were:

 the actual transfer (loading) of the unedited values from magnetic tapes to a data base;

- the provision of representative industry values to those respondents who should have answered the industry questions but did not;
- the editing of the data in order to avoid conflicting responses from the economic variables.

1. Loading the Data Base

As the data were loaded onto an E & I data base, we had our first opportunity to look at aggregate counts for the different codes assigned in ROP processing. In examining the data, several inconsistencies were identified and investigated, and the original questionnaires were searched as required. A problem with Service industries incidental to mining was identified but action was delayed until a later processing stage. There were two errors which required data adjustment at this stage and a summary of the actions taken are given here.

Code I0102 - House Raising and Moving

Counts for this industry code were found to be surprisingly high and further investigation revealed that many respondents who had been employed in the transportation of household furniture (i.e. respondents said they were "moving houses") had been erroneously classified in 10102, an industry code concerned with the actual movement of a house or cottage from one location to another.

The data were adjusted by changing the industry code to 4562 - Used goods, moving and storage, if the respondent had not given his occupation as one of several construction-related occupations.

Code I0120 - Co-axial Cable System for Closed Circuit Transmission

Problems with this code stemmed from inaccuracies in the List of Establishments, as well as some miscoding. The specific problems were:

- misentering of digits by the coders of code I0120 instead of the frequently occurring code I1020 - Fish products;
- mistaken entries in the LOE for Northern Ontario and Eastern Canada of some telephone companies as I0120 instead of I4820;
- mistakes in the LOE where Telesat Canada was incorrectly coded to I0120 instead of I0118.

These data were readjusted depending upon the occupations of the respondents (e.g., fish canner, lineman) in relationship with the area of the country (e.g., Northern Ontario).

After readjustment, there were no inconsistencies in the data for either problem, although the results would have been slightly different if they had been subject to no coding errors.

Other

In addition to these miscodes, there were several other instances of a minor nature that were noted. For instance, it was typical to find miscodes of some frequently occurring codes like 1020 in some less common codes with similar digits, e.g., 10120. The 10120 miscodes were changed because, as noted previously, it was necessary to look at all 10120 codes for more substantial coding problems. However, in general, these miscodes were evaluated but no further action was taken because the counts were relatively low.

2. Imputation

The second major E & I stage, as it applies to the industry variable, is the imputation (creation) of industry responses for those workers who were identified from other economic questions as having worked, but whose industry response was blank, not codable or "invalid". The imputation procedure (named CANEDIT) assigned respondents to an industry major group by matching with another respondent on the data base with a similar profile and assigning the respondent with a blank or invalid industry code the industry major group of the "donor". Table 1 shows the relative distribution of the major groups with and without these imputed records, as well as a relative distribution of the imputed codes. It can be noted that in no case does the relative distribution after addition of the imputed codes change more than 0.1%. There is slightly more variety in the distribution of the imputed codes themselves (e.g., in MG 92 - Food and Beverage Service Industries, the imputed distribution is 6.3% as against a before imputation distribution of 4.9%) but, on the whole, the results look very reasonable at the aggregate level. Of course, greater disparity would be found if the table was cross-classified by other variables such as age and/or sex.

3. Edit

The last major E & I process which affects the industry variable is the editing of the industry, occupation and class of worker variables in order to guarantee internal consistency, e.g., that a person whose occupation is "Elementary or secondary school teacher" has been coded to a teaching or related industry. This is the last stage where adjustments to the data can be made and, in fact, the problems identified in the loading stage were corrected in this edit step.

C. Retrieval Data Base Creation

After the industry variable has been processed through E & I, the data are in their final form. In the retrieval data base creation step, the two variables that will be made available to the output program are created, IND80 (based on the 1980 SIC) and IND70 (based on the 1970 SIC). These new variables are created by reordering the final E & I industry variable into the appropriate groupings.

III. SUMMARY OF NON-SPECIFIC DATA QUALITY ISSUES

There are two major areas with data quality problems that were not specific to the use of either of the two classification systems (i.e. 1970 or 1980 SIC), but were found in whatever classification system was selected. Neither of the problems required data adjustment or special notes, but both will be outlined here and could provide the subject for further data quality evaluation during the 1988-1991 period. The two problems were:

- the difficulty in correctly assigning a response to the retail or wholesale sector, when this sector is not specifically stated;
- undercoverage of reporting certain labour market activity in comparison with the Labour Force Survey data.

A. Differentiation of the Retail/Wholesale Economic Sector

The difficulty in code assignments in the trade sector had been mentioned by both coding consultants and Assistant Regional Processing Managers as a source of possible error. For an incomplete response, in the absence of further information (e.g., local knowledge), or when the company name could not be found in the LOE, it was often a case of making one assignment to retail trade and the next to wholesale trade. This problem would apply equally to the Labour Force Survey data as well. where there is the advantage of the interview but the disadvantage of not making extensive use of the LOE as a coding tool. In any case, it was seen in the evaluation of IND80 that although there was often a poor "fit" between census and survey results for the retail (or wholesale) sale of a product, when the wholesale and retail parts were combined, the results were found to be much better. For example, in MG 55 -Motor Vehicle. Parts and Accessories Industries, Wholesale, the census is 40% (18,000 persons) higher than the LFS, in MG 63 - Automotive Vehicles, Parts and Accessories Industries. Sales and Service, the census is 10% (41,000 persons) lower than the LFS. There are other, less dramatic instances of the same type of reverse difference in LFS - census comparisons. It is difficult to judge if there is a "right" or "wrong" to the results. No special note was issued since, whenever it was possible to check the figures with 1981 LFS and census data, the results were found to be very much the same. This would be an interesting topic for future study, and might yield benefits to both the LFS and the census.

B. Industry Variable Undercoverage

Note: Industry will be discussed in terms of the 1980 SIC but there are equivalent problems for the data grouped in the 1970 SIC as well.

Overall, when 1986 Census counts have been adjusted to the 1986 Labour Force Survey universe, there is still a shortfall of 2.8% (400,000 workers) when we are dealing with the largest "applicable" universe in census terms, i.e. anyone who had worked since January 1, 1985. Although there may be other methodological factors which contribute to this difference, there is one point which returns again and again, i.e. the better coverage of the marginal worker by the survey. This marginal worker was identified throughout the analysis of the industry variable. A female in Private households (e.g., baby-sitting or cleaning), a male in Direct sellers (e.g., newspaper boy), a female in Direct sellers (e.g., newspaper boy), a female in Direct sellers (e.g., newspaper boy), a female in Direct sellers (e.g., newspaper boy) a female in Direct sellers (e.g., newspaper boy), a female in Direct selle

In all these cases, we are dealing with workers who may alternate periods of employment and unemployment, workers who may not consider what they do to be "working" and, in many of the cases, workers whose information will be reported by another person (e.g., a parent or other household maintainer). These marginal workers tend to be much better reported by the survey interview than the census mail-back. In 1981, the undercount in Private households was noted in the industry certification report. This was found to be true in 1986 as well. In fact, the undercount for females in Private households (182,000) is larger than the total undercoverage of all females (167,000). It is possible that the LFS count is high (e.g., some baby-sitters who work in their own home who should be coded to 979 - Other personal and household services may have been coded to 974), but it is certain that there is a significant undercoverage here from the census point of view. In addition to 974 - Private households, it is evident that there is census undercoverage in 692 - Direct sellers and 995 - Services to buildings and dwellings.

In examining the 1981 Labour Force Survey and 1981 Census data, the same problems can be identified (e.g., newspaper delivery is in 699 - Other retail, and this is higher in the LFS than in the census). Since we are missing perhaps as many as 400,000 marginal workers from our census industry coverage, 1986 data rearranged and displayed on the basis of the 1970 SIC would also be missing these respondents. However, since the 1986 LFS data can only be retrieved in the form of industry based on the 1980 SIC, no direct comparisons of where this undercoverage falls can be made.

The following table illustrates the breakdown for paid workers and the self-employed of some selected industries where it was thought that this undercount of marginal workers was most likely to be present. Other industries where the LFS - census difference was larger in either absolute or relative terms were not included, but it is very possible that there are other cases where there is a strong influence of this marginal worker undercoverage.

As can be calculated from this table, these four categories account for almost 70% of the undercoverage for all workers and almost 60% of the undercoverage for the selfemployed.

If time permits, it may be possible to create a profile of these marginal workers that are being missed by the census in order to more efficiently process census data in 1991.

No special note or data adjustment to industry was issued before data release, particularly since the principal component of the undercount (i.e. 974 - Private households) had already been identified in 1981, but also because this problem affects all economic variables.

COMPARISON OF THE PAID NORKER AND SELF-EMPLOYED CATEGORIES IN THE LASOUR FORCE SURVEY(1) AND THE CENSUS FOR SELECTED INDUSTRIES, SY SEX, FOR CAMADA, 1986

INDUSTRY	ALL CLASSES	OF WORKER(2)	PA10 8	ORKERS			SEI	.F-EMPLOYEC	1	
SOTH SEXES					TO	TAL	INCORF	PORATEO	UNINCORF	ORATEO
	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS
ALL INDUSTRIES	14,076,000	13,676,210	12,188,000	12,294,020	1,767,000	1,283,285	506,000	398,745	1,261,000	884,540
MS 40 - BUILO.OEVEL. & SEN.CONTRACTIN	S 233,000	204 505	101 000	100.054	50 444	90.700	27 444	17 516	25 444	00.050
692 - DIRECT SELLERS		204,585	181,000	163,950	52,000	39,760	27,000	17,510	25,000	22, 250
974 - PRIVATE HHLDS	66,000	38,755		26,545	62,000	12,000		1,675	62,000	10,325
	271,000	86,205	76,000	80,820	195,000	5,045	0	265	195,000	4,780
995 - SERVICE TO SLOSS & DWELLINSS	122,000	88,380	83,000	77,060	39,000	10,675	3,000	3,075	36,000	7,600
INDUSTRY	ALL CLASSES	OF NORKER(1)	PA1D N	ORKERS			SEL	F-EMPLOYED		
MALES					TOT	TAL	INCORP	ORATED	UNINCORP	ORATED
	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS
ALL INCUSTRIES	7,863,000	7,629,980	6,590,000	6,615,890	1,243,000	989,495	416,000	317,940	827,000	671,555
MS 40 - BUILD.DEVEL. & SEN.CONTRACTINE	210,000	181,750	160,000	143,830	49,000	37,630	25,000	16,245	24,000	21,385
692 - DIRECT SELLERS	40,000	20,920	0	13,580	39,000	7,310	0	1,160	38,000	6,150
974 - PRIVATE HHLDS	14,000	10,775	6,000	9,000	9,000	1,205	0	100	9,000	1,105
995 - SERVICE TO SLOSS & DMELLINGS	75,000	50,240	43,000	42,000	32,136	7,765	0	2,340	30,000	5,425
1 NDUSTRY	ALL CLASSES	DF WORKER(1)	PAIO NO	DRKERS			SEL	F-EMPLOYED		
FEMALES					TOT	AL	INCORP	DRATED	UNINCORP	ORATED
	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS	LFS	CENSUS,
ALL INDUSTRIES	6,213,000	6,046,230	5,598,000	5,678,125	523,000	293,785	90,000	80,800	434,000	212, 985
MG 40 - BUILO.OEVEL. & SEN.CONTRACTING	23,000	22,830	21,000	20,115	0	2,130	0	1,265	0	865
692 - DIRECT SELLERS	26,000	17,835	0	12,960	24,000	4,695	0	520	24,000	4,175
974 - PRIVATE HHLOS	257,000	75,435	70,000	71,345	186,000	3,845	0	170	186,000	3,675
995 - SERVICE TO SLOSS & DWELLINSS	47,000	38,140	40,000	34,750	7,000	2,905	0	730	6,000	2, 175

⁽¹⁾ ROUNDED TO THOUSANDS AND COUNTS LESS THAN 4,000 SUPPRESSED, FOR LF8 ONLY

⁽²⁾ INCLUDES UNPAID FAMILY MORKERS



IV. SUMMARY OF ISSUES SPECIFIC TO INDUSTRY DATA BASED ON THE 1980 SIC

A. Data Quality

There were some data quality problems for industry in the form of the 1980 classification caused by the increase in the level of coding detail required for specific portions of the classification. This was particularly evident in Government Service Industries, where the data were combined and released at the major group level, and in Construction Industries, where codes were collapsed into one major group.

In the case of Government Service Industries, there was an expansion to 17 codes at the 3-digit level in the 1980 SIC against five in the 1970 SIC. For Construction Industries, there were 14 1980 SIC 3-digit codes versus four 1970 SIC 3-digit codes.

The third instance where collapsing of codes for data release was required was the Mining Industries, where a problem specific to Service industries incidental on mining was a reflection of an attempt to code to a detailed level, compounded by some miscodes in one of the principal coding tools (i.e. the List of Establishments). There were other problems which were not considered serious enough to require combining groups or issuing cautionary notes. Further detail on these problems can be found in Chapter V, 1980 SIC - Detailed Examination. All data were examined at the group level and, if comparisons of data sources indicated there was the possibility of a quality problem, this investigation was carried further.

The three major data quality problems with the 1980 SIC will be discussed here in some detail.

1. Government Service Industries

In 1981, data for this division were collected in five categories, i.e. Defence services, Other federal administration, Provincial administration, Local administration and Other government offices. In the 1980 SIC, there is a much more detailed breakdown at the 3-digit level to which we attempted to code in 1986, e.g., Other federal government was broken down into:

- (a) Protective services;
- (b) Labour, employment and immigration services;
- (c) Foreign affairs and international assistance;
- (d) General administrative services:
- (e) Human resource administration;
- (f) Economic services administration.

There are similar, slightly less detailed, breakdowns for Provincial and territorial and Local governments.

In practice, it was found that for Quebec, in particular, there was a tendency to code to the General administration code at the expense of the more specific

codes. Excluding the territories, Quebec was the province which had the highest proportion of responses coded to General administration for Federal, Provincial and territorial and Local governments. A detailed breakdown of Government Service Industries by Canada, the provinces and territories is shown in Table 2, but a short except of the table is shown here to illustrate the problem. The data shown are for Canada, Quebec and Ontario for Local government service industries.

	CANADA		QUEBEC		ONTARIO	
	#	%	#	%	#	%
MG 83 - Local government service industries	299,745	100.0	76,000	100.0	110,975	100.0
8320 Protect.	64,160	21.4	14,895	19.6	29,025	26.2
8350 General	143,520	47.9	48,405	63.7	40.555	36.5
8360 Human res.	62,080	20.7	7,180	9.4	28,980	26.1
8370 Economic Respondents imputed into	18,275	6.1	2,495	3.3	8,630	7.8
major group 83	11,715	3.9	3,035	4.0	3,795	3.4

It can be easily seen that the distributions for Ontario and Quebec are not at all similar and that the Canada level data are somewhere in between the results for the two provinces (a reasonable outcome when dealing with the two largest provinces). Accepting the fact that there are provincial differences in municipal administration, the variations in the data are not acceptable at this level (in particular, note the difference in the general administrative category, 63.7% versus 36.5%).

The local government example was chosen because it shows the largest distortion in comparing the distributions. However, the effect is found to a lesser degree in the provincial and territorial and federal breakdowns.

For the release of industry data, codes were collapsed to the major group level which is equivalent to the level of detail in the 1981 Census and is equal to the level of data collected by the Labour Force Survey since they have converted to the 1980 SIC.

The problem that would have occurred in presenting the data if no collapsing had been done can be seen in the examination of code 8360 - Human resources. The data before collapsing would imply that there were four times as many workers in Ontario as in Quebec providing these services, which is unlikely.

2. Major Group 40 in Construction Industries Division

Major Group 40 is Building, Developing and General Contracting Industries. It is composed of two Groups at the 3-digit level, i.e. Group 401 - Residential building and development and Group 402 - Non-residential building and development. Problems were expected in this major group since we had been advised by the Regional Office coding consultants that it was very difficult to differentiate these groups from respondent-provided information (particularly if the company name with its associated SIC code was not found in the List of Establishments). A summary table shows the data at the Canada level, comparing the 1986 Labour Force Survey and the 1986 Census.

	198 6 LFS	% dist.	1986 Census	% dist.	% diff. LFS- Census (1986)
401	195,000	83.8	153,710	78.1	-21.3
402	38,000	16.2	42,985	21.9	13.1
Total	233,000	100.0	196,695	100.0	-15.6
MG total including respondents imputed	233,000		204,580		-12.2

More detailed data are available in Table 3, showing 1981 Census recoded data, 1986 Labour Force Survey data and 1986 Census data for Canada.

The undercount of the census in comparison with the Labour Force Survey is an illustration of the better coverage and definition of the "marginal" worker by the Labour Force Survey interview collection method.

The combination of (a) cautions from the coding consultants, (b) undercoverage for the major group as a whole, (c) the disparity in the census-survey differences for the two classes, and (d) the difficulty expected in the assignment of codes for establishments engaged in this industrial activity by business register coders (the source for our List of Establishments code books), all lead to the recommendation of combining these two classes and publishing at the major group level only.

It should be noted that the 1981 recoded data that was used in comparisons based on the 1980 SIC were not at all similar to the 1986 data (i.e. Group 402 was three times as large as Group 401), and although this appeared to be a data quality problem with the 1981 data, it was a final factor in the decision to recommend the collapsing of classes in 1986.

3. Services Incidental to Mineral Extraction

This major group contains two groups:

091 - Service industries incidental to crude petroleum and natural gas;

092 - Service industries incidental to mining.

In investigating some significant differences in Canada-level comparisons between the 1981 Census, 1986 Labour Force Survey and 1986 Census, for these groups, it was found that the results were very poor for the province of Alberta, where 60% of the responses for major group 99 were found.

The results are summarized here:

Industry	1981 Census (recode)	1986 LFS	1986 Census	% change 1981-1986 (Census)	% diff. LFS-Census (1986)
Canada				(00122)	(2000)
091	30,420	39,000	28,050	-7.8	-28.1
092	12,150	9,000	16,080	32.3	78.7
MG Total (excluding imputed codes					
for 1986 Census)	42,570	48,000	44,130	3.7	-8.1
Alberta					
091	23,740	29,000	20,305	-14.5	-30.0
092	2,700	-	5,995	122.0	over 2,800% before suppression
MG Total (excluding imputed codes					
for 1986 Census)	26,440	29,000	26,300	-0.5	-9.3

Occupation distributions for these industries were examined and a significant number of occupations related to "drilling" were found for industry Group 092 - Service industries incidental to mining, which would be typical of industry Group 091 - Service industries incidental to crude petroleum and natural gas. A sample of individual questionnaires from Alberta was examined and from the description of the industry given by the respondents (e.g., drilling or related activities), it was found that several Alberta companies had been coded to industry Group 092 instead of to Group 091.

This research took place before the industry variable had been processed through the E & I system and an investigation was made to fix the data in the E & I process. No method of adjusting the data seemed feasible, e.g., the drilling occupations were not specific enough to Group 091 to allow the data adjustment to be made by a global change of all respondents with a specific occupation. It was decided at that time that combining the groups at the major group level seemed appropriate. The coding for Alberta (and to a lesser extent Saskatchewan) was almost certainly wrong and since this represents a large proportion of the data for Canada, the groups were collapsed.

For the industry variable in the form of the 1970 SIC, there is one class which includes both these 1980 SIC groups and, for that reason, this data quality problem was not an issue in this classification.

B. Level of Detail Available in 1986 Industry Data Based on the 1980 Standard Industrial Classification

Note: Although some of these points are discussed elsewhere in this document at greater length, they are summarized here for those users whose principal concern is data availability.

Industry from the 1986 Census is available at the 3-digit level based on the 1980 SIC with the following exceptions:

Division A - Agricultural and Related Service Industries

Major Group 09 - Service Industries Incidental to Mineral Extraction

Major Group 40 - Building, Developing and General Contracting Industries

Division K - Finance and Insurance Industries

Division N - Government Service Industries (although one 3-digit code, 811 - Defence services, is available)

Explanations for the restriction of these categories to the 2-digit major group level are given in the following discussion.

Division A - Agricultural and Related Service Industries

There are two major groups in this division. For the first major group in particular, i.e. Agricultural Industries, census respondents do not give sufficient detail in their responses to effectively assign farms to the different categories that would be required to code at the 3-digit level, e.g., livestock farms as opposed to field crop farms.

Major Group 09 - Service Industries Incidental to Mineral Extraction

As noted in Services Incidental to Mineral Extraction under Data Quality in this chapter.

Major Group 40 - Building, Developing and General Contracting Industries

As noted in Major Group 40 in Construction Industries Division under Data Quality in this chapter.

Division K - Finance and Insurance Industries

This was another instance where the level of detail of information given by census respondents was expected to be insufficient to code to the 3-digit level. This is a very difficult division to code when we do not have access to financial statements or records. As an example, there is one 3-digit SIC code for Deposit accepting mortgage companies (Group 704) and there is another SIC code in a different major group for Mortgage companies (Group 722), commercial mortgage companies are in Group 712 and mortgage brokers are in Group 742. A further example would be the difficulty in differentiating Group 711 - Consumer Loan Companies and Group 712 - Business Financing

Companies. In the absence of a trained enumerator who could elicit further detail, the census responses were expected to be too vague to allow for coding to the 3-digit level in this division.

There were two other factors which contributed to this decision:

- (1) The List of Establishments as prepared by Business Register Division does not cover financial institutions very well and this meant our coders would, for the most part, be operating without the aid of one of our two main coding manuals.
- (2) The level of detail of the 1980 SIC at the 2-digit level (i.e. 5 codes) is the same as the level of detail of the 1970 SIC at the 3-digit level. In other words, coding at the 2-digit level in 1986 was equivalent to coding at the 3-digit level in 1981. To illustrate this point, a table of near-equivalent 1980 and 1970 SIC codes for finance industries follows, with the counts for the experienced labour force shown for each code.

There are several factors to note before examining these data. They are:

- The 1980 SIC data are based on a current (1986) definition of the labour force.
- (2) The 1970 SIC data are based on a 1971-adjusted definition of the labour force.
- (3) Although these categories are nearly equivalent, they are not exactly equivalent. There are some industries that were moved from one category to another in the conversion from the 1970 to the 1980 SIC. Only in Insurance Industries (i.e. 1980 SIC 730, 1970 SIC 721) is this a major change, since this involved the addition of Workman's Compensation Boards and the Unemployment Insurance Commission to these categories in the 1980 SIC whereas, in the 1970 SIC, they were classified in Public Administration.

1986 DATA

1980 SIC 700 265,120 1970 SIC 701 265,220 1980 SIC 710 13,860 1970 SIC 703 14,150 1980 SIC 720 25,295

 1970 SIC 707
 23,265

 1980 SIC 730
 121,230

 1970 SIC 721
 113,405

 1980 SIC 740
 26,855

Division N - Government Service Industries

1970 SIC 705

As noted in Government Service Industries under Data Quality in this chapter.

27,290

V. 1980 SIC - DETAILED EXAMINATION

In this chapter, the data for each individual division and major group based on the 1980 SIC are separately analysed in comparison to alternative data sources. Often, there is nothing significant to report. In other cases the analysis is taken further to the group level.

Principal sources are:

- May 1986 Labour Force Survey (in all cases LFS data are rounded to 1,000 and suppressed LT 4,000);
- 1981 Census industry recoded (a recode which was done after the 1981 Census from a selected sample);
- 1986 Census industry data.

The universe for all tabulations was restricted to the Labour Force Survey universe as far as possible and was based on all workers who had worked since January 1 of the previous year (1980 or 1985 as applicable). In 1981, the LFS used the 1970 SiC and for that reason comparisons of 1981-1986 growth for the LFS and the census will be done only occasionally, where conversion from one classification to another did not pose significant problems.

Note: The Labour Force Survey universe differs from the census universe in its exclusion of the Yukon and Northwest Territories, households of Canadians outside Canada (e.g., embassies), full-time members of the Armed Forces and Indian reserves.

Division A - Agricultural and Related Service Industries

1981 Census	529,725
LFS	599,000
1986 Census	566,435
1981-1986	6.9%
LFS-1986 Census	-5.4%

The census increase for this division is virtually the same as the increase in the total for the selected universe (6.1%). The variance with the LFS (census -5.4%) is understandable in this division where marginal workers would be better identified by the LFS.

MG 01 - Agricultural Industries

1981 Census	Only available at the division level in the recode
LFS	571,000
1986 Census	542,630

LFS-1986 Census -5.0%

There is nothing significant to note for Major Group 01 in a data quality context. Data were not collected at the group level for this major group, since census respondents do not give enough detail to differentiate the types of farm (e.g., livestock versus field crop).

MG 02 - Service Industries Incidental to Agriculture

1981 Census Not available LFS 27,000

1986 Census 23,805

LFS-1986 Census -11.8%

From examination of the data of the equivalent major group as classified under the 1970 SIC, it can be seen that trends for both the LFS and census were increases in the 1981-1986 period, with the LFS gain being larger. Census results appear reasonable.

Division B - Fishing and Trapping Industries

1981 Census 42,650 LFS 56,000 1986 Census 51,950 1981-1986 21.8% LFS-1986 Census -7.2%

The 1981-1986 increase of 21.8% is significant, and welcome, since this was noted in the Industry Certification Report in 1981 as being a problem area (particularly in Newfoundland). In 1981, the discrepancy between the LFS and census for the employed labour force was -17%. This census, the difference is -7.2% (for all workers for which industry was applicable). Once again the discrepancy in Newfoundland is high (-30.8), although much less than it was in 1981 (-58.5%).

MG 03 - Fishing and Trapping Industries

The results for this major group are the same as division results.

It should be noted that in this major group, the Group 031 - Fishing industries shows a disparity of -15.7% in comparing the census and the survey. Again (as with agriculture), there is the continuing census difficulty of covering part-time, part-year, seasonal, minimum-hours workers.

Division C - Logging and Forestry Industries

8,015 7,000 1,610
2.6% 3.9%

There is a specific problem with Major Group 05 - Forestry Services Industry.

MG 04 - Logging Industry

1981 Census	83,465
LFS	92,000
1986 Census	84,205
1981-1986	0.9%

This major group follows the pattern seen in other primary industries (undercounts as against the LFS).

MG 05 - Forestry Services Industry

1981 Census	24,555
LFS	24,000
1986 Census	37,405
1981-1986	52.3%
LFS-1986 Census	55.9%

This major group was closely examined because of the discrepancy (census 55.9% higher than LFS) in the LFS-census counts as well as the large growth for 1981-1986. Two factors were noted.

- In observing occupation distributions for this industry major group, it seems likely that some logging operations were reported here rather than in the Logging industry. This is true, in part, to an ambiguous introduction that is found in the ICM (as well as the 1980 SIC), which implies that this major group included all "forestry" activities, whereas it should cover only some marginal activities.
- "Reforestation services" are included here, and the growth in this activity seems strong, particularly in Quebec and British Columbia.

In the end, it was decided that no action was warranted, although rewording of the introduction in the appropriate manuals will be done before these code books are used for another application.

Division D - Mining (Including Milling), Quarrying and Oil Well Industries

1981 Census	216,175
LFS	221,000
1986 Census	200,690
1981-1986	-7.2%
LFS-1986 Census	-9.2%

Two of the four major groups required closer examination (i.e. MG 06 and MG 09).

MG 06 - Mining Industries

1981 Census	112,360
LFS	103,000
1986 Census	81,660
1981-1986	-27.3%
LFS-1986 Census	-20.7%

The LFS-census difference here is almost entirely accounted for by the difference in Metal mines (25,000 difference -34.1%). In investigating Metal mines in the more detailed 1970 classification (where Metal mines is a major group not a group), all trends (i.e. LFS, Survey of Employment Payroll and Hours (SEPH) and census) seem to be in the same direction (i.e. gold up, other metal mines down). The figure, despite the discrepancy, is acceptable. This is a case where establishment coding (i.e. from company name lists with associated SIC codes) would yield quite different results from coding from respondents descriptions of their company's kind of business (since an individual respondent may not be aware of his mining company's main economic activity, particularly when several minerals or products are taken from the same mine). Results are consistent throughout all provinces.

MG 07 - Crude Petroleum and Natural Gas Industries

1981 Census LFS	51,580 58,000
1986 Census	61,315
1981-1986	18.9%
LFS-1986 Census	5.7%

All trends, i.e. LFS and SEPH in the 1970 classification and the census in the 1980 classification, show an increase indicating the recovery of this industry from 1983 low points.

MG 08 - Quarry and Sand Pit Industries

1981 Census	9,670
LFS	12,000
1986 Census	11,980
1981-1986	23.9%
LFS-1986 Census	-0.2%

The results seem reasonable, with a good match.

MG 09 - Service Industries Incidental to Mineral Extraction

1981 Census	42,570
LFS	48,000
1986 Census	45,735
1981-1986 LFS-1986 Census	7.4%

The major group results were fine but the two individual groups in this major group were a problem source.

In particular, there was an overcount in Group 092 of respondents who should have been coded to Group 091. This was most evident in Alberta where there was a 2,800% difference between the LFS and census results.

Group 091 - Service industries incidental to crude petroleum and natural gas includes many "drilling" type occupations. In examining the occupational distribution for Group 092 - Service industries incidental to mining, many respondents were seen with these "drilling" occupations. As well, an examination of a sample of questionnaires for respondents in Alberta showed that the companies for which they worked had been erroneously classified to 092 rather than 091 in the List of Establishments.

Groups 091 and 092 were collapsed into one Group 091/092. This was not required in the 1970 classification, since there was one code, 099, to which both these industrial activities were classified. The results are discussed more fully in Chapter IV, Summary of Issues Specific to Industry Data Based on the 1980 SIC.

Division E - Manufacturing Industries

LFS	2,366,000
1986 Census	2,338,105
1981-1986 LFS-1986 Census	0.0%

There is virtually no difference at the division level.

MG 10 - Food Industries

1981 Census	266,475
LFS	273,000
1986 Census	277,075
1981-1986	4.0%
LFS-1986 Census	1.5%

Results are quite consistent at the major group level. At the group level, there was a significant LFS-census difference for Group 107, Bakery products industries. This underlines the difficulty in coding bakeries where goods are sold on the premises (which are coded to retail) as against establishments where the emphasis is baking only. In any case, the census results appear to be reasonable.

MG 11 - Beverage Industries

1981 Census	44,985
LFS	40,000
1986 Census	40,570
1981-1986	-9.8%
LFS-1986 Census	1 4%

There is no problem at the major group level. There are some differences of up to 20% between the LFS and census at some group levels but nothing significant.

MG 12 - Tobacco Products Industries

8 760

1981 Census	8,760
LFS	10,000
1986 Census	8,255
1981-1986	-5.8%

There are no differences that cannot be explained by weighting and sampling in the Labour Force Survey (e.g., the total LFS sample is less than 50 persons).

MG 15 - Rubber Products Industries

1981 Census	28,855
LFS	26,000
1986 Census	26,600
1981-1986	-7.8%

There is no problem at the major group level. At the group level, there are inconsistencies, but the counts are too low for further analysis.

MG 16 - Plastic Products Industries

1981 Census	44,820
LFS	68,000
1986 Census	54,060
1981-1986	20.6%

Trends for SEPH, LFS and census, for MG 15 - Rubber Products Industries (down) and MG 16 - Plastic Products Industries (up) are all the same, but the LFS increase is much larger than the census counts.

At the group level for Plastic Products Industries, there is a much smaller residual group (i.e. Group 169, Other plastic products industries) for the census in comparison with the survey and these counts are distributed throughout the other groups.

MG 17 - Leather and Allied Products Industries

1981 Census	34,290
LFS	36,000
1986 Census	31,010
1981-1986	-9.6%
LFS-1986 Census	-13.9%

Major group results (which are the same as the group in this case) are reasonable.

MG 18 - Primary Textile Industries

1981 Census	46,320
LFS	26,000
1986 Census	28,535
1981-1986	-38.4%
LFS-1986 Census	9.7%

The drop in the Primary Textile Industries is very well demonstrated by all groups in this major group with consistent LFS-census results much lower than 1981 Census results.

MG 19 - Textile Products Industries

1981 Census	50,715
LFS	45,000
1986 Census	44,280
1981-1986	-12.7%
LFS-1986 Census	-1.6%

Results are consistent with the Primary Textile Industries as well.

MG 24 - Clothing Industries

1981 Census	151,520
LFS	170,000
1986 Census	159,110
1981-1986	5.0%
LFS-1986 Census	-6.4%

There is no problem at the major group level. This is a case, as is noted also in the 1970 classification, where there was too high a level of detail in the coding (i.e. 14 codes collapsed to make the four groups in Major Group 24). In addition to this, there is the difficulty in differentiating between establishments which make up Group 244, Women's clothing, from those which make up Group 243 – Men's and boy's clothing. Many firm make both. The result of these combined problems is a large group, i.e. Group 249 – Other clothing and apparel industries, which shows an increase of 66.1% over 1981 and is 23.7% higher than the LFS estimate. In any case, the results are consistent in each coding region and province and were not collapsed or regrouped.

MG 25 - Wood Industries

1981 Census	154,330
LFS	152,000
1986 Census	149,015
1981-1986	-3.4%
LFS-1986 Census	-2.0%

There is no problem at the major group level. The only area that required examination is Group 254 - Sash, door and other millwork industries, where census results are 20% lower than the LFS. No apparent explanation is available.

MG 26 - Furniture and Fixture Industries

1981 Census	63,365
LFS 1986 Census	68,000 70,515
1981-1986	11.3%

There is no problem at the major group level. In examining the individual groups, the 1886 Census has a much higher residual Group 269, Other furniture and fixture industries, than the LFS (although even this is a decrease from 1981). The difference seems to come completely from Group 261 - Household furniture industries. At the provincial level and the level of coding (i.e. regional) the results were consistently the same across Canada.

MG 27 - Paper and Allied Products Industries

LFS	151,350 127,000
1986 Census	136,880
1981-1986 LFS-1986 Census	-9.6% 7.8%

There is no evident problem at the major group or group level.

MG 28 - Printing, Publishing and Allied Industries

LFS	186,000
1986 Census	177,395
1981-1986 LFS-1986 Census	11.7%

There is no problem at the major group level. Group 283 - Publishing industries, may be slightly off (-22.2% compared to LFS) because of the difficulty in differentiating this group from Group 284 - Combined publishing and printing industries. If the establishment is not in the List of Establishments, it is almost impossible to get this level of detail from the respondent's answer (e.g., a typical response would be "newspaper"). This was noted by coding consultants to be a particularly difficult coding decision.

MG 29 - Primary Metal Industries

1981 Census	144,585
LFS	137,000
1986 Census	131,410
1981-1986	-9.1%
LFS-1986 Census	-4.1%

There is no problem at the major group level. However, there are two areas that require examination.

Results for Groups 295 - Non-ferrous metal smelting and refining industries and 296 - Aluminum rolling, casting and extruding industry, have been collapsed since 1971, because there is some difficulty in differentiating between the two groups. This does not appear to be required in 1986, with the results consistent with SEPH and LFS ratios of one group to the other (e.g., for the ratio 295 to 296, the 1986 Census is 3.7 to 1, 1986 LFS Census is 2.6 to 1, 1986 SEPH is 3.8 to 1).

There is a significant 1981-1986 decrease in Group 291 -Primary steel industries (-20.6%) and this figure is substantially lower than the LFS figure (-29.3%). The LFS trend is also down from 1981 to 1986. The SEPH 1983-1986 result did not change, while the LFS 1981-1983 result is a 13% decrease (these are 1970 SIC results). The LFS 1984-1986 trend has not changed. The direction of the trend in the early 1980s is clear (a decrease), it is the magnitude of the change that seems to vary.

MG 30 - Fabricated Metal Products Industries (Except Machinery and Transportation Equipment Industries)

1981 Census	200,560
LFS	164,000
1986 Census	181,090
1981-1986	-9.7%
LFS-1986 Census	10.4%

There is no problem at the major group level. At the group level, it is only the smaller groups (LT 20,000) which exhibit large percentage differences.

MG 31 - Machinery Industries (Except Electrical Machinery)

1981 Census	103,450
LFS	80,000
1986 Census	89,565
1981-1986	-13.4%
LFS-1986 Census	12.0%

The major group continues the trend with the metal industries (i.e. significant declines but LFS figures remain higher than census). In this instance, there are some discrepancies at the group level caused by higher counts by the census in the residual Group 319 - Other machinery and equipment industries.

MG 32 - Transportation Equipment Industries

1981 Census	221,095
LFS	265,000
1986 Census	253,065
1981-1986	14.5%
LFS-1986 Census	-4.5%

There is no problem at the major group level and a good result at the group level. Only the smaller groups show wider divergences. The LFS is higher in the residual group for this major group.

MG 33 - Electrical and Electronic Products Industries

1981 Census	166,900
LFS	195,000
1986 Census	173,480
1981-1986	3.9%
LFS-1986 Census	-11.0%

These results are not as close as could be expected. The major group is not "too bad" but the groups differ noticeably. Part of this problem may be the different coding methodologies, particularly the use of the LOE by the census. Often an establishment dealing in this type of product will cross group boundaries in the type of product manufactured and results can be very different if we compare respondent responses to more complete financial information (which is used by the Business Register Division in their coding and consequently in the List of Establishments).

MG 35 - Non-Metallic Mineral Products Industries

1981 Census	72,920
LFS	68,000
1986 Census	65,055
1981-1986	-10.8% -4.3%

There is no problem at the major group or group level.

MG 36 - Refined Petroleum and Coal Products Industries

1981 Census	28,000
LFS	27,000
1986 Census	26,790
1981-1986	-4.3%
LFS-1986 Census	-0.8%

There is no problem at the major group or group level.

MG 37 - Chemical and Chemical Products Industries

1981 Census LFS	101,690 110,000
1986 Census	110,000
1981-1986	8.3%
LFS-1986 Census	0.1%

There is no problem at the major group level. Many of the groups are small so it is difficult to discuss these results in terms of LFS-census comparisons. The only difference here of any significance is the -34.6% disparity between the 1986 Census and the LFS for Group 374 - Pharmaceutical and medicine industry. It should be noted, however, that in 1981, the LFS was also higher than the census, so in that respect the differences are consistent.

MG 39 - Other Manufacturing Industries

1981 Census	93,985
LFS	95,000
1986 Census	104,190
1981-1986	10.9%

There is no problem at the major group level. There are some inconsistencies at the group level, but this is to be expected when examining some of these residual categories.

Division F - Construction Industries

1981 Census	797,040
LFS	839,000
1986 Census	804,420
1981-1986 LFS-1986 Census	0.9%

The LFS-census undercount for this division is more (-4.1) than the LFS-census undercount in total (-2.8) and reflects the ability of the survey to better cover marginal workers who may only be working in construction for a short period of time. It should be noted that the 1981-1986 Census trend under the 1970 classification is a negative not a plus as is seen here. In general, there appear to be some problems of undercounting by the census in Major Group 40, and some inconsistencies in Major Group 42.

MG 40 - Building, Developing and General Contracting Industries

1981 Census	189,435
LFS	233,000
1986 Census	204,580
1981-1986	8.0%
LFS-1986 Census	-12.2%

In terms of both number and percentage differences, there are some significant differences in this major group. There are even larger differences at the group level.

	•	LFS	1986 Census	
401	Residential building and development	195,000	153,710	-21.2
402	Non-residential building and development	38,000	42,985	13.1

The undercount for the major group as a whole, which in large part describes the undercount at the division level, can be partially explained by the better enumeration by interviewer methodology of marginal workers (the large proportion of which would be found in this major group for general construction). The difficulty in assigning workers to either of the two categories (i.e. residential versus non-residential) had already been raised as a difficult coding decision by our Regional Office coding consultants. This type of differentiation would also be difficult in the LFS coding methodology.

Provincially, the distribution of "residential" to "non-residential" was consistent in all provinces and coding regions except British Columbia.

In view of the LFS-census inconsistencies and the identified problems at the Regional Office stage, the two groups were collapsed to Major Group 40. These results are discussed more fully in Chapter IV, Summary of Issues Specific to Industry Data Based on the 1980 SIC.

MG 41 - Industrial and Heavy (Engineering) Construction Industries

1981 Census	132,640
LFS	101,000
1986 Census	105,535
1981-1986	-20.6%
I FC-1006 Canque	4 204

The major group and individual groups are reasonably consistent.

MG 42 - Trade Contracting Industries

1981 Census	462,250
LFS	495,000
1986 Census	481,715
1981-1986	4.2%
LFS-1986 Census	-2.7%

There is no problem at the major group level. At the group level, the most significant differences are an overcount in the census for Group 422 - Structural and related work in comparison to the LFS (41.4%) and an undercount in Group 427 - Interior and finishing work (-13.5%) and Group 429 - Other trade work (-64.7%).

Collapsing was not recommended for this major group, in particular because the LFS is so much higher in the residual Group 429 - Other trade work (57,000 as against 20,095 for the 1986 Census).

It should be noted that here and throughout the Construction Industries Division, the 1981 recode values suffer from their own data quality problems (e.g., there is a 139,685 count for Group 429 - Other trade work in comparison to 20,095 for the 1986 Census).

MG 44 - Service Industries Incidental to Construction

1981 Census LFS	12,720 10,000
1986 Census	12,790
1981-1986	0.6%
LFS-1986 Census	27.9%

This is a small major group. The larger group in this group matches well in a LFS-census comparison.

Division G - Transportation and Storage Industries

1981 Census	547,540
LFS	584,000
1986 Census	598,245
1001 1000	0.00/
1981-1986	9.3%
LFS-1986 Census	2.4%

There is no problem at the division and major group level, but there are some minor discrepancies at the group level.

MG 45 - Transportation Industries

1981 Census LFS 1986 Census	516,965 564,000 572,080
1981-1986	10.7%
LFS-1986 Census	1.4%

The LFS-census match at the major group level is excellent. At the group level for those groups with more than 20,000, there is an LFS-census undercount by the census of -25.0% for Group 454 - Water transport industries and -14.5% for Group 458 - Other transportation industries, and a distinct overcount, in Group 459 - Other service industries incidental to transportation, of 59.4%. Two of these large discrepancies are in residual categories. No adjustment or collapsing of data was required.

MG 46 - Pipeline Transport Industries

1981 Census	6,835
LFS	5,000
1986 Census	8,110
1981-1986 LFS-1986 Census	18.7%

These counts are too small to be effectively analysed.

MG 47 - Storage and Warehousing Industries

1981 Census	23,740
LFS	16,000
1986 Census	18,055
1981-1986	-23.9%
LFS-1986 Census	12.8%

These counts are too small to be effectively analysed.

Division H - Communication and Other Utility Industries

MG 48 - Communication Industries

1981 Census	276,295
LFS	305,000
1986 Census	289,380
1981-1986	4.7%
LFS-1986 Census	-5.1%

There is no problem at the major group level and for all large groups.

MG 49 - Other Utility Industries

1981 Census	135,595
LFS	141,000
1986 Census	142,780
1981-1986	5.3%
I.FS-1986 Census	1 396

There is no problem at the major group level. There are several inconsistencies at the group level, but nothing where adjustments were required. The residual Group 499 - Other utility industries, n.e.c. is higher in the census than the LFS (27.5%).

Division I - Wholesale Trade Industries

1981 Census	592,230
LFS	643,000
1986 Census	619,360
1981-1986	4.6%
LFS-1986 Census	-3.7%

Coding consultants had expressed some difficulties in assigning respondents to the wholesale or retail sector and this can be noted in comparing the total wholesale and retail sales for a particular product type. The total often gives a better match than the individual retail or wholesale breakdown. A more complete analysis of this trend is found in Chapter III, Summary of Non-specific Data Quality Issues.

It should be noted that Wholesale trade was only a major group in the 1970 classification and raising it to the level of a division has created nine major groups at a lower level.

MG 50 - Farm Products Industries, Wholesale

1981 Census	11,165
LFS	16,000
1986 Census	15,895
1981-1986 LFS-1986 Census	42.4%

There is no problem at the major group level, and there is only one group.

MG 51 - Petroleum Products Industries, Wholesale

1981 Census LFS	33,825 31,000
1986 Census	28,185
1981-1986	-16.7%

There is a reasonable match at the major group level and only one group.

MG 52 - Food, Beverage, Drug and Tobacco Industries, Wholesale

1981 Census	75,990
LFS	110,000
1986 Census	92,375
1981-1986	21.6%
LFS-1986 Census	-16.0%

There is not a good match at the major group or group level between the census and the LFS. In comparing the 1981 Census and the 1981 LFS, the same differences were found (although they were not as large). In all cases the trends were the same for each group. The census was originally higher or lower and the gap between the census and the LFS increased.

The difference is particularly noticeable in Group 521 - Food, wholesale.

LFS	84,000
1986 Census	65,430
% diff.	-22.1%

MG 53 - Apparel and Dry Goods Industries, Wholesale

1981 Census	18,650
LFS	23,000
1986 Census	20,140
1981-1986	8.0%
LFS-1986 Census	-12 494

There is a reasonable match, with small counts, at the major group and group levels.

MG 54 - Household Goods Industries, Wholesale

1981 Census LFS	22,840 23,000
1986 Census 1981-1986	21,680
LFS-1986 Census	-5.7%

There is no problem at the major group or group level.

MG 55 - Motor Vehicle, Parts and Accessories Industries, Wholesale

1981 Census	42,925
LFS	45,000
1986 Census	62,845
1981-1986	46.4%
LFS-1986 Census	39.7%

This is a very bad LFS-census match at the major group and group level. The reverse of this mismatch of results is found in Major Group 63 - Automotive Vehicles, Parts and Accessories Industries, Sales and Service where census counts are proportionally lower than the LFS.

This difference was even more pronounced (on a percentage basis) in 1981 when census counts were 70% higher than the LFS.

It is difficult to isolate a single cause of these discrepancies in LFS and census coding, but I would expect it to be related to companies having been assigned codes in the wholesale sector by Business Register Division coders and these codes being accepted by census coders when no wholesale/retail differentiation was clear.

Due partly to the historical difference in the counts, no adjustment of the data was done.

MG 56 - Metals, Hardware, Plumbing, Heating and Building Materials Industries, Wholesale

1981 Census	107,465
LFS	108,000
1986 Census	102,725
1981-1986	-4.4%
LFS-1986 Census	-4.9%

There is no problem at the major group level. There are substantial differences at the group level (note the LFS-census difference of -18.6% in Group 563 - Lumber and building materials, wholesale) but these are comparable to 1981.

MG 57 - Machinery, Equipment and Supplies Industries, Wholesale

LFS Census	172,795
1986 Census	177,190
1981-1986	2.5%
LFS-1986 Census	-1.0%

There is a good match at the major group level and at the group level with the exception of higher counts for the LFS in the residual Group 579 - Other machinery, equipment and supplies, wholesale.

MG 59 - Other Products Industries, Wholesale

1981 Census	106,565
LFS	107,000
1986 Census	98,330
1981-1986	-7.7%
LFS-1986 Census	-8.1%

The major group total matches quite well. There is a wide variance for the individual group responses, but this is to be expected in a residual major group, particularly when many of the groups have small counts.

Division J - Retail Trade Industries

LFS	1,852,000
1986 Census	1,759,535
1981-1986	12.8%

As noted in discussing wholesale trade, coding consultants noted difficulties in differentiating between wholesale and retail trade and there is often more agreement for a total of the wholesale and retail components of a product's sale than the individual wholesale and retail parts. In this division, there is one particular problem that should be noted. There is a undercount by the census in Group 692 – Direct sellers, in which the LFS coverage of marginal workers (e.g., paperboys) is much better than the census.

MG 60 - Food, Beverage and Drug Industries, Retail

1981 Census	396,890
LFS	477,000
1986 Census	493,060
1981-1986 LFS-1986 Census	24.2%

There is an excellent LFS-census match at the major group and group level.

MG 61 - Shoe, Apparel, Fabric and Yarn Industries, Retail

1981 Census	147,695
LFS	181,000
1986 Census	174,420
1981-1986	18.1%
LFS-1986 Census	-3.6%

Comparisons are reasonable at the major group level but inconsistent at the group level, particularly Group 614 - Clothing stores, n.e.c., where the census count is down -21.9% from the LFS. This is partially compensated in percentage terms by a 27.7% increase in Group 612 - Men's Clothing Stores.

MG 62 - Household Furniture, Appliances and Furnishings Industries, Retail

1981 Census	77,675
LFS	125,000
1986 Census	110,100
1981-1986	41.7%
LFS-1986 Census	-11.9%

The LFS-census comparison at the major group level is not that bad, but there are two group values, Group 622 - Appliance, television, radio and stereo stores and Group 623 - Household furnishings stores in which the census is -25%. These changes are consistent throughout the provinces and coding regions. The 1981 figures are not in a form which is easily comparable, so it is difficult to judge if this difference is historically consistent. A possible explanation is that the List of Establishments coding by the census would tend to code these respondents to a company level if they indicate just a department for their Kind of business, whereas the LFS would tend to code these people to the Kind of business description, even if this was only the department description.

In other words, respondents working in furniture departments of larger establishments would be coded to the larger establishment (e.g., department store) by LOE coding but may be coded only as a furniture store if the coding was done by the Kind of business description.

MG 63 - Automotive Vehicles, Parts and Accessories Industries, Sales and Service

1981 Census	343,810
LFS	419,000
1986 Census	377,925
1981-1986	9.9%
LFS-1986 Census	-9.8%

As noted in the discussion for Major Group 55 - Motor Vehicle, Parts and Accessories Industries, Wholesale, there are some significant LFS-census discrepancies here at the group level. This is illustrated in Group 634 - Automotive parts and accessories stores (i.e. census down 28,000) where the difference can be found in the wholesale part of these products. As noted, this is the same type of difference that can be found in 1981 Census-LFS comparisons.

MG 64 - General Retail Merchandising Industries

1981 Census	329,885
LFS	298,000
1986 Census	303,685
1981-1986	-7.9%
LFS-1986 Census	1.9%

An excellent LFS-census match at the major group level. There is only one group in this major group.

MG 65 - Other Retail Store Industries

1981 Census	237,440
LFS	281,000
1986 Census	255,140
1981-1986	7.5%
T TC 1000 C	-0.00

In this major group we find some of the variety to be expected when examining a residual major group. The significant LFS-census differences in Group 651 - Book and stationery stores (-22.3%) and Group 658 - Toy, hobby, novelty and souvenir stores (-26.8%) are consistent throughout all provinces and coding regions and, in the case of Group 651, are supported by a similar trend in 1981.

As with the difference in Major Group 62, it is probably helpful for the census to be coding, at least in part, with the aid of the LOE, thus avoiding coding respondents to "departments" of layer companies.

MG 69 - Non-Store Retail Industries

1981 Census	27,135
LFS	71,000
1986 Census	45,205
1981-1986	66.6%
LFS-1986 Census	-36.3%

As noted, there is a significant undercount by the census in Group 692 – Direct sellers (including paperboys and similar occupations). This is due, in part, to the greater ability to identify marginal workers in an interview than by mail-back questionnaire.

Division K - Finance and Insurance Industries

1981 Census	455,535
LFS	491,000
1986 Census	490,740
1981-1986	7.7%
LFS-1986 Census	-0.1%

Coding was only done to the major group level for this industry. The census division totals agree well with LFS figures. At the major group level, there are several LFS-census differences, which serve to point out the difficulty of coding financial institutions and give support to the decision not to code this division to the 3-digit level. It should be noted that there may be some undercounting of Major Group 73 - Insurance Industries, at the expense of Major Group 76 - Insurance and Real Estate Agent Industries (Division L).

MG 70 - Deposit Accepting Intermediary Industries

1981 Census LFS 1986 Census	270,280 275,000 287,165
1981-1986	6.2%
LFS-1986 Census	4.4%

There is a quite reasonable agreement for this large major group (mostly banks).

MG 71 - Consumer and Business Financing Intermediary Industries

1981 Census	17,215
LFS	18,000
1986 Census	15,055
1981-1986	-12.5%
LFS-1986 Census	-16.4%

There is more of a variance than could be hoped for, but it is difficult to further analyse counts less than 20,000.

MG 72 - Investment Intermediary Industries

1981 Census	30,155
LFS	15,000
1986 Census	28,140
1981-1986	-6.7%
LFS-1986 Census	87.6%

This is a very large difference. The only (partial) explanation is the opposite shift in Major Group 74 - Other Financial Intermediary Industries, a residual category in which the LFS is 6,000 higher than the census. Again, these are difficult entries to code, even at the major group level, and the results were accepted. The 1981 Census-LFS results had an even larger gap.

MG 73 - Insurance Industries

1981 Census	114,985
LFS	148,000
1986 Census	131,245
1981-1986	14.1%

As noted, there may be somewhat of an undercount here in comparison with Major Group 76 - Insurance and Real Estate Agent Industries. This major group (73) contains "insurance companies" in comparison with Group 76, which contains only "independent insurance and real estate agents".

MG 74 - Other Financial Intermediary Industries

1981 Census	22,895
LFS	35,000
1986 Census	29,130
1981-1986 LFS-1986 Census	27.2%

As mentioned previously, codes in this residual major group may have been used by the LFS coders in preference to codes in Investment Intermediary Industries (MG 72).

Division L - Real Estate Operator and Insurance Agent Industries

1981 Census	199,645
LFS	228,000
1986 Census	244,375
1981-1986 LFS-1986 Census	22.4%

Results are reasonable throughout the division, with the exception of a possible overcount in "insurance agents" (MG 76).

MG 75 - Real Estate Operator Industries (Except Developers)

1981 Census	80,365
LFS	93,000
1986 Census	88,285
1981-1986	9.9%
LFS-1986 Census	-5.196

The LFS-census match is reasonable (particularly with the imputed codes added into the major group). The difference in Group 751 - Operators of buildings and dwellings is a bit larger than could be hoped.

MG 76 - Insurance and Real Estate Agent Industries

1981 Census	119,285	
LFS	135,000	
1986 Census	156,090	
1981-1986	30.9%	
LFS-1986 Census	15.6%	

As noted in discussing Major Group 73, coders have difficulty in coding the general entry "insurance" and it appears that in 1986, there may be an overcount in "insurance and real estate agents" which are the independent operators, at the expense of "insurance companies" which are classed in Major Group 73.

It can be seen that the coding for Major Group 73 and Major Group 76 is consistent throughout Canada, with the exception of Ontario which has 17,000 of the total difference of 22,000 in the 1986 LFS Census results. No collapsing of codes was recommended for the two major groups, in part because the 1981 Census-LFS results were similar.

Division M - Business Service Industries

1981 Census	511,645 619,000
1986 Census	637,610
1981-1986	24.6%
LFS-1986 Census	3.0%

There is a good match at the division level, but for the individual groups, responses vary and there is not a good LFS-census match. In general, the groups in this division have exhibited a consistent 25% growth from 1981 to 1986.

Division N - Government Service Industries

1981 Census	864,265 952,000
1986 Census	944,265
1981-1986	9.3%
LFS-1986 Census	-0.8%

There are reasonable results at the division and major group level. The group results are discussed in Chapter IV, Summary of Issues Specific to Industry Data Based on the 1980 SIC. A table of 3-digit values is shown in Appendix A.

MG 81 - Federal Government Service Industries

1981 Census	332,025
LFS	319,000
1986 Census	358,035
1981-1986	7.8%
LFS-1986 Census	12.2%

These counts are deceptive because of the restriction to the LFS universe. Almost all the increase in this division comes from Defence services and those respondents imputed into the major group. This can be seen in the examination of the industry variable based on the 1970 SIC which includes a SEPH comparison.

MG 82 - Provincial and Territorial Government Service Industries

1981 Census LFS	280,750 316,000
1986 Census	301,85
1981-1986	7.59
LFS-1986 Census	-4.5%

These results are consistent with 1981-1986, LFS-1986 Census and SEPH.

MG 83 - Local Government Service Industries

1981 Census	249,355
LFS	314,000
1986 Census	282,585
1981-1986 LFS-1986 Census	13.3%

These are reasonable results at the major group level.

MG 84 - International and Other Extra-Territorial Government Service Industries

1981 Census LFS 1986 Census	2,135 suppressed 1,790
1981-1986 LFS-1986 Census	-16.2%
212 1000 0011000	applicable

These counts are too small to analyse.

Division O - Educational Service Industries

These counts are the same as Major Group 85, which follows.

MG 85 - Educational Service Industries

1981 Census	810,265
LFS	902,000
1986 Census	898,795
1981-1986	10.9%
LFS-1986 Census	-0.4%

There is a good match at the major group level and in all groups except Group 852 - Postsecondary non-university education which is down -16.2%. There is no apparent reason for the difference.

Division P - Health and Social Service Industries

These counts are the same as Major Group 86, which follows.

MG 86 - Health and Social Service Industries

LFS	1,120,000
1986 Census	1,119,145
1981-1986	16.9%

There is a good LFS-census match at the division level, but there are some inconsistencies with Group 863 - Non-institutional health services and Group 864 - Non-institutional social services. A problem of a more extreme nature for industry based on the 1970 SIC required collapsing, but it was not required here.

Division Q - Accommodation, Food and Beverage Service Industries

1981 Census	768,650
LFS	925,000
1986 Census	924,600
1981-1986	20.3%
LFS-1986 Census	-0.0%

There is a good LFS-census match at the division level, but some inconsistencies at the major group and group level.

MG 91 - Accommodation Service Industries

1981 Census	233,140
LFS	221,000
1986 Census	244,980
1981-1986	5.1%
LFS-1986 Census	10.9%

In terms of the LFS-census comparison, the major group total does not match that well, but the individual groups are not that unreasonable.

MG 92 - Food and Beverage Service Industries

1981 Census	535,510
LFS	704,000
1986 Census	679,620
1981-1986	26.9%
LFS-1986 Census	-3.5%

The major group match is reasonable (i.e. with imputed codes added in), but the variation in groups is a little more than expected. Possibly some of the additional counts in Group 911 - Hotels, motels and tourist courts, should have been coded into this major group in Group 921 - Food services or Group 922 - Taverns, bars and night - clubs.

Division R - Other Service Industries

1981 Census LFS 1986 Census	698,395 1,116,000 924,165
1981-1986	32.3%
LFS-1986 Censu	s -17.29

There is a significant census undercoverage here (i.e. in Group 974 - Private households) but when this difference (185,000) is accounted for, the results for the rest of the division match quite well.

MG 96 - Amusement and Recreational Service Industries

1981 Census	156,870
LFS	218,000
1986 Census	185,885
1981-1986	18.5%
LFS-1986 Census	-14.7%

This is not a good LFS-census match, at the major group or group level. The residual Group 969 - Other amusement and recreational services is markedly different (i.e. census -42.5% compared to the LFS). No additional data manipulation or collapsing was recommended.

MG 97 - Personal and Household Service Industries

1981 Census	186,825
LFS	474,000
1986 Census	309,495
1981-1986	65.7%

There is a census undercoverage problem in Group 974 - Private households (including such activities as baby-sitting and housekeeping) which are better covered by the LFS interviewer-collection process. In addition to this known problem, there are the high census results for the residual Group 979 - Other personal and household services. In other census years, no note had been added to output products to explain the Group 974 undercoverage and this approach was followed this time as well. The differences will be noted in any certification reports, data evaluations, and user guides prepared. A more complete explanation of the coverage difficulties in Groups 974 and 979 is given in Chapter III, Summary of Non-specific Data Quality Issues.

MG 98 - Membership Organization Industries

1981 Census	98,170
LFS	152,000
1986 Census	157,440
1981-1986	60.4%
LFS-1986 Canque	3 6%

The major group total is fine. The individual groups vary considerably (particularly those with smaller counts). For the two groups with the largest counts, Group 981 - Religious organizations (-11.6%) and Group 986 - Civic and fraternal organizations (-8.9%), the variance was not that large.

MG 99 - Other Service Industries

1981 Census	256,525
LFS	271,000
1986 Census	271,350
1981-1986	5.8%
LFS-1986 Census	0.1%

There is a perfect match at the major group level, which is surprising for a residual major group. There are two significant disagreements at the group level:

- census down by 34.000 for Group 995 Service to buildings and dwellings;
- census higher by 20,000 for Group 999 Other services, n.e.c.

Although classification changes from 1981 to 1986 do not allow for direct comparisons of the data, examination of equivalent 1970 SIC classes indicate the same type of differences for the 1981 Census and 1981 LFS data.

- 1981 Census was down 13,000 for Class 898 Services to buildings and dwellings.
- 1981 Census was higher by 24,000 for Class 899 Miscellaneous services, n.e.s.

The 1986 difference for Group 995 is another example of the census undercoverage of marginal workers (in this case "cleaners"). Given the similarity of differences in 1981 and 1986, no further data adjustment was taken.

VL SUMMARY OF ISSUES SPECIFIC TO INDUSTRY DATA BASED ON THE 1970 SIC

Use of an intermediate classification which was reordered into a 1970 and 1980 SIC caused some coding problems. This was noted in the Clothing Industries major group (where 14 different intermediate codes were reassigned to six 1970 SIC codes). In this major group, a 125% increase for 1981-1986 in Class 249 - Miscellaneous clothing industries seems to be due in large measure to this problem of too much coding detail. In this case, no action (i.e. collapsing of codes) was taken.

In a second instance, the major group for Health and Welfare Services in Division 10 - Community, Business and Personal Service Industries, further action was required. Coders were given 15 codes arranged on the basis of the 1980 SIC and these 15 codes were later reordered into eight codes in the 1970 SIC. There was a great deal of difficulty in the assignment of codes in this major group (e.g., "mursing homes with personal nursing care" were assigned a different 1970 code than "nursing homes without personal care" and this level of detail is seldom given by the respondent). The overall effect of these difficulties in coding was that different Regional Offices took different approaches to this coding application and, although the Canada-level figures are reasonable, there was no consistency of coding and regional differences were acute. A short table of Quebec and Ontario differences as they compare to Canada totals are shown here to identify the problem for three classes.

		Canada	Quebec	Ontario
821	1981	515,180	158,185	160,925
Hospitals	1986	527,660	159,960	170,355
	% diff.	2.4	1.1	5.9
822		•		
Related	1981	71,270	6,615	33,090
health care	1986	80,015	19,945	19,340
institutions	% diff.	12.3	201.5	- 41.6
828	1981	182,510	52,300	57,555
Welfare	1986	239,035	56,065	93,275
organizations	% diff.	31.0	7.2	62.1

The solution adopted was to combine Class 822 and Class 828 which places the problem codes in one class. This is done in the 1980 SIC by the natural grouping of industries in this classification.

New class numbers after regrouping Class 822 and Class 828

		Canada	Quebec	Ontario
822/828 Related health				
care institutions	1981	253,780	58,915	90,645
and welfare	1986	319,050	76,010	112,615
organizations	% diff.	25.7	29.0	24.2

In addition to the required collapsing of Classes 822 and 828, which was done for all retrievals, there is a further collapsing of codes required when 1986 data are compared to other census years. A detailed discussion of which codes have to be collapsed, and in which instances, is discussed fully in Chapter VIII, Historical Considerations Regarding Census Industry Data.

There is one final data quality problem which is not readily identifiable in comparison between 1981 and 1986 Census figures but which is isolated and identified in verifying 1986 results in the form of the 1980 SIC. On the basis of the 1980 SIC, there is one group, Group 692 - Direct sellers, which appears to be undercounted by 25,000 by the census. The responses for this group on the basis of the 1970 SIC fall in Class 699 - Retail stores, n.e.s., however, there is no 1986 Labour Force Survey data available to compare to Class 699 (and the 1981-1986 Census increase 154,905 to 179,355, 15.8% appears quite reasonable). The only way in which to identify a shortfall is to compare 1981 Census and 1981 Labour Force Survey results. These differed by almost 40,000 (154,905 to 193,990) and from the results as shown by 1986 Census data on the basis of the 1980 SIC, Class 699 has suffered a similar undercount in this census. The problem is the superior coverage of marginal workers (e.g., newspaper carriers or door-to-door sales) by the enumerator-interview technique as practiced by the survey.

A similar undercount is seen for "baby-sitters" in Class 873 - Private households, and this is also discussed more fully in Chapter III, Summary of Non-specific Data Quality Issues.

As expected, the occupations "newspaper vendor" and "baby-sitter" as found in occupation classifications are also subject to this undercount.

VII. 1970 SIC - DETAILED EXAMINATION

In this chapter the data for each individual division and major group based on the 1970 SIC are analysed separately in comparison to alternative data sources. As with the results in Chapter V, analysis was taken to a lower level if anything significant was found.

The principal data sources used to verify the data based on the 1970 SIC were:

- 1981 Census data;
- Survey of Employment, Payroll and Hours (SEPH) data from 1983 to 1986;
- Labour Force Survey data based on the 1970 SIC from 1981 to 1983;
- where comparable, Labour Force Survey data based on the 1980 SIC from 1984-1986.

Being given that the only directly comparable data source to 1986 Census data based on the 1970 SIC was the 1986 SEPH data, the emphasis in analysing the data was based on trends of growth and decline over the 5-year period from both LFS and SEPH as they could be applied to the 1981 Census data. It was thought that because of the extreme differences in coverage and methodology of the SEPH and census data (i.e. SEPH is an "establishment" as against a "household" survey), reliance on analysis of trends for the different industry divisions, major groups and classes would be more realistic. While the historical LFS and SEPH data sources are available, only references to a percentage increase or final 1986 data figure will be given in this document. A 1981-1986 LFS trend is shown occasionally, for industries in which there are few changes in the presentation of the data in the form of the 1970 or 1980 SIC. No attempt was made to adjust the data to cover classification changes, so these numbers are given for convenience of ready analysis only. They should not be considered as "comparable" data.

Division 1 - Agriculture

1981 Census 1986 Census	532,250 552,175	
1981-1986	4%	
1981-1983 LFS	-2%	
1981-1986 LFS	1%	

This increase is supported by the LFS trend.

MG 01/02 - Farms

1981 Census 1986 Census	511,465 529,250
1981-1986	3%
1981-1983 LFS	-2%
1981-1986 LFS	0.5%

The 1981-1986 increase is reasonably consistent with the LFS trend.

NOTE:

Over 30,000 respondents are added to this major group by our final E & I "edits".

MG 03 - Services Incidental to Agriculture

1981 Census 1986 Census	20,885 22,925	
1981-1986	10%	
1981-1983 LFS	15%	

Again, this increase is reasonably consistent with the LFS trend.

Division 2 - Forestry

1981 Census	111,475
1986 Census	120,025
1981-1986	8%
1981-1983 LFS	-3%
1981-1986 LFS	-4%
1983-1986 SEPH	-13%

The increase (even more pronounced for females at +20%) is contrary to the LFS trend of a 4% decrease, although the final figure is roughly the same (117,000 in the LFS). Both the LFS and SEPH show the same decreasing trend. This is particularly true for Forestry services in which the census trend is 44% growth (25,800 to 37,242) and the SEPH results are mildly supportive (2% increase for 1983-1986) and the LFS not supportive (-10% for 1984-1986, 8% increase for 1981-1983). From earlier work in the 1980 classification, "Forestry services" was identified as a problem area, and the problem is discussed more fully in the analysis of industry based on the 1980 SIC. No manner of adjusting the data was readily available and a cautionary note was not recommended.

MG 01 - Logging

1981 Census 1986 Census	85,670 82,780
1981-1986	-3%
1981-1983 LFS	-6%
1983-1986 SEPH	-1896

There was a similar trend in the LFS.

MG 02 - Forestry Services

1981 Census	25,800
1986 Census	37,245
1981-1986	44%
1981-1986 LFS	0%
1981-1983 LFS	8%
1983-1986 SEPH	2%

This is a problem area that could reflect on miscodes that should have been included in "Logging". It is due in part to the ambiguous description in the introduction to this major group in the 1980 SIC which was used in the ICM. The introduction implies a wider coverage for "Forestry services" than is actually the case. The provincial distribution is particularly skewed in Quebec (3,085 to 7,290), an increase of 136% and British Columbia (7,715 to 12,620) an increase of 64%. As previously mentioned, the inclusion of "reforestation services" in this major group would be at least a partial explanation of the 1981-1986 increases in Quebec and British Columbia, since there has been legitimate strong growth in this activity.

Division 3 - Fishing and Trapping

1981 Census	44,400	
1986 Census	51,540	
1981-1986	16%	(64% for females)
1981-1986 LFS	8%	
1981-1983 LFS	1%	

The 64% increase for females is a surprising trend, but the total count was only 7,955 with the East and Quebec showing over 100% increases. It is possible that there was some miscoding of "fish processing plants" in fishing rather than in Class 102, Fish products industry. No SEPH results are available for "Fishing".

In examining the results before edits, there were 1,705 persons in Occ. 8217 - Fishing, canning, curing and packing in the class Fishing. The majority of these should probably have been coded to Class 102 - Fish products industry. A global fix could not be made because there are some legitimate occupations in this unit group (e.g., fish curer) which should go into fishing. In 1981 in these occupations, there was a total of 710 in the labour force which was split nearly equally M - F (i.e. 350 to 365). The problem with miscoding between Fishing and Fish products industries is that establishments cross the class border from one industry to another and it is not always easy to classify respondents' descriptions in one industry. No data adjustment was made in this instance.

MG 01 - Fishing

1981 Census	38,060
1986 Census	45,385
1981-1986	19%
1981-1983 LFS	6%

As noted in comments for the division, it appears that there may be some problem in coding for Fishing industries in comparison with coding for Fish products industries (Class 102). This may require changes in future coding operations but no data adjustment was taken here.

MG 02 - Fishery Services

1981 Census	4,555
1986 Census	4,670
1981-1986	3%
1981-1983 LFS	-12%

Results are too small to analyse further.

MG 03 - Hunting and Trapping

1981 Census	1,790
1986 Census	1,475
1981-1986	-18%
1981-1983 LFS	-65%

Results are too small to analyse further.

Division 4 - Mining (Including Milling), Quarries and Oil Wells

1981 Census	221,945
1986 Census	198,335
1981-1986	-11%
1981-1983 LFS	-7%
1981-1986 LFS	-5%
1983-1986 SEPH	-2%

Although the LFS trend is in the same direction, it was only 5%. The SEPH figures support the census figures since the 1983-1986 trend in SEPH was a decrease against a 1983-1986 minor increase in the LFS. A problem requiring collapsing in the 1980 classification is not relevant here (i.e. both problem industries are in 099).

MG 01 - Metal Mines

1981 Census 1986 Census	82,915 51,860
1981-1986	-37%
1981-1983 LFS	-13%
1983-1986 SEPH	-11%

The 1981-1986 drop seemed significant and was examined more closely.

There was a 42% increase in "Gold mines" but all other metal mine classes showed decreases varying from 36% to 48%. The LFS decrease was high (15%) but still significantly lower than the census decrease. The problem is that after 1983, the LFS figures are only available in the 1980 classification which is less detailed for this particular major group, the 1983-1986 decrease in the LFS (-2%) was not as low as SEPH figures which showed an 11% decrease. In all cases, the trends are the same (i.e. gold up, other metals down) but the census figures represent the most pronounced changes.

MG 02 - Mineral Fuels

1981 Census 1986 Census	64,650 74,335
1981-1986	15%
1981-1983 LFS	-3%
1983-1986 SEPH	-1%

There is a similar trend in the 1981-1986 LFS (approximately 15%). The recovery in the petroleum industry is supported by LFS, census and SEPH (to a small degree).

MG 03 - Non-metal Mines (Except Coal Mines)

1981 Census 1986 Census	20,230 15,855
1981-1986	-22%
1981-1983 LFS	-0.3%
1983-1986 SEPH	-14%

From 1981 to 1986, the 22% decrease is caused almost entirely by a 51% decrease in Asbestos. $\,$

The 1981-1986 LFS trend was even more pronounced for non-metal mines (22,000 to 12,000), but Asbestos was not differentiated in any figures available after the 1984 change to the 1980 SIC. SEPH figures for the 1983-1986 period indicate a 36% drop for Asbestos.

MG 04 - Quarries and Sand Pits

1981 Census	9,705
1986 Census	11,585
1981-1986	19%
1981-1983 LFS	-17%
1983-1986 SEPH	-8%

The 1981-1986 LFS follows the same trend but with a larger increase (35%). The final figure is similar (1986 LFS 12,000).

MG 05 - Services Incidental to Mining

1981 Census	44,440
1986 Census	44,700
1981-1986	1%
1981-1983 LFS	-2%
1981-1986 LFS	-4%
1983-1986 SEPH	25%

This increase is reasonably consistent with the LFS which shows a 4% decrease.

For industry based on the 1980 SIC, the data will have to be collapsed to this level.

Division 5 - Manufacturing Industries

1981 Census 1986 Census	2,365,865 2,283,415
1981-1986	-4%
1981-1983 LFS	-8%
1983-1986 SEPH	N/C

The 1981-1986 LFS trend is the same (-5%) but counts are higher in both cases. The LFS decrease is all in the period 1981-1983, while the 1983-1986 SEPH and 1984-1986 LFS register no change.

MG 01 - Food and Beverage Industries

1981 Census 1986 Census	338,035 330,090
1981-1986	-2%
1981-1983 LFS	1%
1983-1986 SEPH	-6%

The classification composition of this major group has changed a great deal. However, both 1981-1983 LFS and 1984-1986 SEPH are virtually unchanged (both in 1970 SIC), while 1983 to 1984 SEPH shows a 5% decrease. Of the nine classes in this major group there were six with minor losses. The largest gain was 3%. In general, where comparable, the major group changed little from 1981.

MG 02 - Tobacco Products Industries

1981 Census 1986 Census	8,760 7,975
1981-1986	-9%
1981-1983 LFS	-32%
1983-1986 SEPH	-13%

The 1981-1986 trend for the LFS is a 9% increase. SEPH is more consistent with census (i.e. showing a decrease in the 1984-1986 time period versus the LFS increase).

MG 03 - Rubber and Plastics Products Industries

1981 Census	73,495
1986 Census	80,755
1981-1986	10%
1981-1983 LFS	3%
1981-1986 LFS	40%
1983-1986 SEPH	-1%

The 1981-1986 LFS trend is a much higher (i.e. 40%) increase but the category has changed significantly.

The 1983-1986 SEPH is much more consistent with the 1986 Census than the LFS (e.g., the LFS shows a -32% decrease in rubber; 1984-1986 SEPH was virtually unchanged).

In all cases, the trend is the same with rubber products down and plastic products up.

MG 04 - Leather Industries

1981 Census	34,870
1986 Census	29,600
1981-1986	-15%
1981-1983 LFS	-14%
1983-1986 SEPH	-22%

All trends, LFS and SEPH, show a decrease. However, changes in the 1980 classification make the LFS comparability difficult. All four classes in this major group have shown an 1981-1986 decline.

MG 05 - Textile Industries

1981 Census	87,135
1986 Census	74,670
1981-1986	-14%
1981-1983 LFS	-27%
1983-1986 SEPH	194

Cotton, wool, man-made fibre, all show at least a 30% decrease. This is another case where LFS comparisons are difficult. A sharp drop for 1981-1983 (-27%) is followed by consistency for 1984-1986 as against no change for 1983-1986 SEPH. The nine individual classes in this major group are small (i.e. only the residual class is larger than 15,000 in 1986) and only one class has grown significantly in the 1981-1986 time period (i.e. Class 188 - Automobile fabric accessory industry increased by 37%).

MG 06 - Knitting Mills

1981 Census	23,910
1986 Census	18,285
1981-1986	-24%
1981-1983 LFS	2%
1983-1986 SEPH	-5%

There is no separate Knitting mills code in the 1980 SIC LFS, but SEPH shows a 5% decrease for 1983-1986.

This is one case where the increased coding required to code to both 1970 and 1980 systems may have had some effect on the coding in the 1970 classification. In this case, nine different codes were combined to yield code 239 - Knitting mills (except hosiery mills) as against one code in 1981.

MG 07 - Clothing Industries

1981 Census 1986 Census	139,155 134,840	
1981-1986	-3%	
1981-1983 LFS	-1%	
1983-1986 SEPH	-1%	

Overall, the 1981-1986 decline is minor but the individual classes involved reveal a data quality problem. In particular, Class 249 - Miscellaneous clothing industries shows a 125% increase (11,860 to 26,695). This is probably more a reflection of the level of coding detail (i.e. 14 different codes split among 6 different 1970 SIC codes) than a true change. However, the trends in the other classes in this major group are reasonably well supported by trends in LFS and SEPH.

Since we are dealing with a residual class, no action was recommended. However, the inconsistencies will be noted in planning for future coding operations.

MG 08 - Wood Industries

1981 Census	160,505
1986 Census	144,700
1981-1986	-10%
1981-1983 LFS	-16%
1983-1986 SEPH	-11%

The LFS trend is exactly the same. In absolute terms, the decline in Class 251 - Sawmills, planing mills and shingle mills (14,000) is almost enough to account for the total major group decline.

MG 09 - Furniture and Fixture Industries

1981 Census 1986 Census	73,515 79,670
1981-1986	8%
1981-1983 LFS	3%
1983-1986 SEPH	15%

The LFS change involves a classification adjustment. The 1981-1983 LFS followed by 1983-1986 SEPH support a similar trend. All four classes grew from 1981 to 1986.

MG 10 - Paper and Allied Industries

1981 Census	154,190
1986 Census	138,335
1981-1986	-10%
1981-1983 LFS	-11%
1983-1986 SEPH	3%

The 1981-1986 LFS trend is in the same direction but larger (-20% overall). The SEPH results are more moderate (and in fact indicate an increase for 1984-1986 versus an LFS drop). The results overall appear reasonable.

MG 11 - Printing, Publishing and Allied Industries

1981 Census	147,165
1986 Census	162,720
1981-1986	11%
1981-1983 LFS	8%
1002-1006 SEDU	104

The 1981-1986 LFS trend is in the same direction with a larger 24% increase. The SEPH result is more consistent with the more modest census increase.

MG 12 - Primary Metal Industries

1981 Census 1986 Census	144,145 127,495
1981-1986	-12%
1981-1983 LFS	-15%
1983-1986 SEPH	-4%

The decrease is almost entirely due to the decrease in Class 291 - Iron and steel mills.

The 1981-1986 LFS trend is slightly larger (16% decrease). In previous censuses (i.e. 1971 and 1981) Classes 295 and 296 have been combined because of the difficulty in differentiating the two classes. However, this was not reguired in 1986. Further detail is given in the discussion of industry based on the 1980 SIC.

MG 13 - Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries)

1981 Census 1986 Census	199,625 175,560
1981-1986	-12%
1981-1983 LFS	-21%
1983-1986 SEPH	-3%

The 1981-1986 LFS trend shows a 20% decrease and only one of the nine classes in the major group did not decline in the 1981-1986 period.

MG 14 - Machinery Industries (Except Electrical Machinery)

1981 Census 1986 Census	126,735 113,845
1981-1986	-10%
1981-1983 LFS	-11%
1983-1986 SEPH	-2%

The LFS is not comparable but 1981-1983 decreased by 11% and the 1983-1986 SEPH shows little change.

MG 15 - Transportation Equipment Industries

1981 Census	216,575
1986 Census	230,135
1981-1986	6%
1981-1983 LFS	-5%
1983-1986 SEPH	1594

The LFS trend is a 19% increase for 1981-1986, while SEPH values fall between census and LFS counts (i.e. 10% increase for 1984-1986 versus 17% LFS).

MG 16 - Electrical Products Industries

1981 Census 1986 Census	140,465 137,925
1981-1986	-2%
1981-1983 LFS	-7%
1983-1986 SEPH	996

The LFS figures are not comparable. However, there is a 7% decrease for 1981-1983 LFS, a SEPH 9% increase for 1983-1986.

MG 17 - Non-metallic Mineral Products Industries

1981 Census 1986 Census	73,135 62,770
1981-1986	-14%
1981-1983 LFS	-14%
1983-1986 SEPH	7%

The 1981-1986 data for the LFS is not completely comparable. However, it shows the same general trend (-8%).

MG 18 - Petroleum and Coal Products Industries

1981 Census	28,030
1986 Census	26,110
1981-1986	-7%
1981-1983 LFS	-13%
1983-1986 SEPH	-5%

The 1981-1986 LFS exhibits the same trend, 10% decrease.

MG 19 - Chemical and Chemical Products Industries

1981 Census 1986 Census	105,700 106,585
1981-1986	1%
1981-1983 LFS	-9%
1002-1006 SEDU	694

Again, although the 1981-1986 LFS is not completely comparable, the general trend is different (i.e. 7% decrease). SEPH shows the same 1983 to 1986 increase as the LFS (approximately 5%-6%).

MG 20 - Miscellaneous Manufacturing Industries

1981 Census	90,730
1986 Census	101,355
1981-1986	12%
1981-1983 LFS	-2%
1983-1986 SEPH	-14%

The LFS exhibits a 2% decrease for 1981-1983 and a 1% increase for 1984-1986. SEPH showed a 14% decrease for 1983-1986. This inconsistency is not unexpected when dealing with a residual major group.

Division 6 - Construction Industry

1981 Census	805,025
1986 Census	777,385
1981-1986	-3%
1981-1983 LFS	2%
1983-1986 SEPH	11%

The LFS trend is different (i.e. a 2.5% increase) while the SEPH counts for 1983-1986 agree with the LFS. The 1986 LFS is much higher (61,000) than the census.

Analysis of the construction work-force is difficult, but it should be noted the SEPH trend for 1983-1986 special trade contractors is a 16% gain which does not support the census results of a 3% increase from 1981 to 1986. The problem of undercoverage in this division is discussed more fully in Chapter III under Industry Variable Undercoverage.

MG 01 - General Contractors

1981 Census 1986 Census	332,670 302,730
1981-1986	-9%
1981-1983 LFS	-0.5%
1983-1986 SEPH	16%

The LFS data for 1986 on the basis of the 1980 SIC are not useful in detailed analysis of this major group on the basis of the 1970 SIC. However, it is worth noting that for construction overall, the LFS trend is an increase (as against a decrease in census). This is also true for SEPH construction in general, although it should be noted that SEPH figures are annual averages (and it is difficult to compare this type of data in such a seasonal industry).

MG 02 - Special-trade Contractors

1981 Census 1986 Census	472,360 474,655
1981-1986	0.5%
1981-1983 LFS	4%
1983-1986 SEPH	16%

This small census increase compares to a large increase in SEPH, and an increase for 1981-1983 in the LFS of 4%.

The level of detail of the 1986 coding manuals (i.e. 10 special trade codes in total as against one in 1981 and seven other construction codes compared to three in 1981) introduces a further factor in the comparison of coding schemes. At the aggregate level of the 1970 classification (i.e. four construction codes) there was some lack of agreement between the data sources, but no specific coding problems were evident.

Division 7 - Transportation, Communication and Other Utilities

1981 Census	992,040
1986 Census	1,013,165
1981-1986	2%
1981-1983 LFS	-1%
1983-1986 SEPH	196

The LFS shows a nearly identical 1% increase from 1981 to 1986.

MG 01 - Transportation

1981 Census 1986 Census	568,195 603,425
1981-1986	6%
1981-1983 LFS	-4%
1983-1986 SEPH	2%

It should be noted that declines in water and rail transportation are offset by increases in some of the residual transportation fields (e.g., Highways and bridge maintenance, Miscellaneous services incidental to transport).

The other data sources are not supportive (e.g., 1981-1983 LFS trend down 4% and 1983-1986 SEPH up 2%), although none of the percentage changes are large. In all, only three of the 14 classes in this major group declined while there is a wide variety of gains (from 4% to 38%).

MG 02 - Storage

1981 Census 1986 Census	23,775 17,420
1981-1986	-27%
1981-1983 LFS	-8%
1983-1986 SEPH	-11%

The decrease in grain elevators SIC code 524 is substantial: 11.085 to 5.910 (-47%).

MG 03 - Communication

1981 Census	263,885
1986 Census	252,895
1981-1986	4%
1981-1983 LFS	6%
1983-1986 SEPH	-1%

The significant difference is a census decrease in Telephone systems from 124,190 to 112,280 (-10%) versus an LFS increase for 1981-1983 (8%) and an 1984-1986 increase in telecommunications carriers (7% increase).

1983-1986 SEPH shows a 4% decrease in Telephone systems.

This is another case where the increased level of coding detail (eight regular codes and nine comparison codes versus four codes in 1981) may have had some effect on the 1970 SIC industry data.

MG 04 - Electric Power, Gas and Water Utilities

1981 Census 1986 Census	136,180 139,430
1981-1986	2%
1981-1983 LFS	-4%
1983-1986 SEPH	2%

The census trend compares to a 1981-1983 LFS decrease and a 1983-1986 SEPH increase. There was a large growth in the residual class for this major group.

Division 8 - Trade

1981 Census 1986 Census	2,141,870 2,262,780
1981-1986	6%
1981-1983 LFS	4%
1983-1986 SEPH	12%

The 1981-1986 LFS shows a 14% increase, with the final LFS figure 2,496,000. This could be affected by classification changes in this division. It is also different from 1981 figures in which the census was higher than the Labour Force Survey.

In comparisons made in the 1980 SIC for the census and the LFS, it was noted that often the total for a "product" (both retail and wholesale) gave better comparative results than the individual wholesale - retail components.

MG 01 - Wholesale Trade

1981 Census	594,725
1986 Census	598,410
1981-1986	1%
1981-1983 LFS	-1%
1983-1986 SEPH	8%

There is nothing obvious in the lower level comparison although, in general, the highs and lows are more pronounced in the LFS.

MG 02 - Retail Trade

1981 Census 1986 Census	1,547,145 1,664,370
1981-1986	8%
1981-1983 LFS	6%
1983-1986 SEPH	13%
1984-1986 LFS	6%

In the case of the LFS, the larger increases are affected by their enumerator method of collection, which tends towards capturing responses for some "marginal" types of work - note that in the 1980 classification, for 1986 data, the count is 38,755 in census versus 66,000 in the survey for Group 692 - Direct sellers (i.e. paperboys, etc.).

Division 9 - Finance, Insurance and Real Estate

1981 Census 1986 Census	667,880 708,935
1981-1986	6%
1981-1983 LFS	1%
1981-1986 LFS	9%
1983-1986 SEPH	11%

The trends match reasonably well for the division as a whole, but there is a possible problem identified in industry based on the 1980 SIC, of miscoding in Major Groups 02 and 03.

MG 01 - Finance Industries

1981 Census	341,380
1986 Census	348,090
1981-1986	2%
1981-1983 LFS	-4%
1983-1986 SEPH	11%

Results seem consistent at this level.

MG 02 - Insurance Carriers

1981 Census	108,080
1986 Census	119,160
1981-1986	10%
1981-1983 LFS	-1%
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The discrepancy between the census and LFS trends for MG 02 reflects the difficulty in coding insurance agents (i.e. Class 721 in MG 02 if they work for a company or Class 735 in MG 03 if they work independently). This problem is addressed more fully in the discussion of industry based on the 1980 SIC.

MG 03 - Insurance Agencies and Real Estate Industry

1981 Census 1986 Census	218,410 241,680
1981-1986	11%
1981-1983 LFS	11%
1983-1986 SEPH	19%

Note the previous comment for MG 02.

Division 10 - Community, Business and Personal Service Industries

1981 Census 1986 Census	3,793,280 4,345,510
1981-1986	15%
1981-1983 LFS	7%
1983-1986 SEPH	11%

As illustrated, the other data sources are very supportive of the large 1981-1986 growth.

MG 01 - Education and Related Services

1981 Census	838,965
1986 Census	884,215
1981-1986	5%
1981-1983 LFS	10%
1983-1986 SEPH	7%

In general, for all data sources, the trends are very similar, although the increase is much less for the census.

MG 02 - Health and Welfare Services

1981 Census 1986 Census	931,765 1,066,485
1981-1986	15%
1981-1983 LFS	6%
1002-1006 SEDU	004

Within this major group, there are some troublesome counts in both classifications. For industry data regrouped according to the 1970 SIC, there is a problem with Classes 822 and 828, particularly in Quebec and Ontario.

The decision was taken to combine Classes 822 and 828 which solves the problem for data based on the 1970 SIC. This is partly done in the 1980 classification because of the manner in which industries are grouped in this classification. The problem is discussed more fully in Chapter VI, Summary of Issues Specific to Industry Data Based on the 1970 SIC.

MG 03 - Religious Organizations

1981 Census	67,640
1986 Census	73,840
1981-1986	9%
1981-1983 LFS	23%
1983-1986 SEPH	not available

This is a surprising increase in the LFS from 1981-1983. The census results appear more reasonable in this case.

MG 04 - Amusement and Recreation Services

1981 Census	160,320
1986 Census	180,955
1981-1986	13%
1981-1983 LFS	7%
1983-1986 SEPH	5%

There are similar trends in the LFS and SEPH. In examining the individual classes with census data, we find a large increase in Class 842 - Motion picture production and distribution (100%). However, a portion of this may be due to miscodes from Class 841 - Motion picture theatres (-20% in 1981-1986). There has no doubt been a significant increase in Class 842, but 100% may be a little higher than the actual value. Partially because the counts are low for these classes, no further action was taken.

MG 05 - Services to Business Management

1981 Census	522,945
1986 Census	643,925
1981-1986	23%
1981-1983 LFS	5%
1983-1986 SEPH	14%

The results are well supported by the other main sources. Internally the results for each class are reasonable.

MG 06 - Personal Services

1981 Census	210,260
1986 Census	296,89
1981-1986	41%
1981-1983 LFS	8%
1983-1986 SEPH	18%

The 1984-1986 LFS based on the 1980 SIC for Personal and health services varies from 423,000 to 474,000 respondents (12%).

One-third of the census increase is in Class 873 - Private households and another third is in Class 879 - Miscellaneous personal services.

In examining the distributions, we find the same problems as identified in 1981 (i.e. the survey covers marginal industries, such as private households, better than the census). Coverage seems improved from 1981 to 1986. Note, Class 879 includes baby-sitting but an ROP rule assigns "baby-sitters" to Class 873 if the activity is in another person's home. This was a possible source of 1986 miscode, since only Class 879 has a "baby-sitting" entry in the ICM and if the ROP rules were not followed, there would be overreporting of baby-sitters in Class 879. In fact, census results show an increase of over 140% in Class 879 for the 1981-1986 period. Some miscoding is suspected, but the extent is not clear. No data adjustment was made, in part because of the severe undercoverage in Class 873.

MG 07 - Accommodation and Food Services

1981 Census 1986 Census	778,870 886,050
1981-1986	14%
1981-1983 LFS	2%
1983-1986 SEPH	21%

The trends are similar. The breakdown within the major group also seems reasonable.

MG 08 - Miscellaneous Services

1981 Census	282,515
1986 Census	313,145
1981-1986	11%
1981-1983 LFS	13%
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There are similar trends for the major group and the individual class trends look reasonable.

Division 11 - Public Administration and Defence

1981 Census	959,290
1986 Census	1,022,625
1981-1986	7%
1981-1983 LFS	4% (not really applicable)
1983-1986 SEPH	N/A

Because of coverage differences for the LFS and SEPH, there is really no source to provide comparable trend data (particularly at the division level and for Major Group 01 - Federal administration).

MG 01 - Federal Administration

1981 Census	410,180
1986 Census	426,860
1981-1986	4%

All the growth is in Defence services, while Other federal administration remains virtually unchanged.

From the LFS and SEPH, only the "other" part of federal administration can be verified.

Note:

The LFS is similar in both the 1980 and 1970 classifications.

1970 SIC 1981-1983 2.7% 1980 SIC 1984-1986 0.1%

Overall 0.5%

This supports the census counts very well. Occupation results are consistent with the increase in defence, i.e. the ranks increased from

			75.415	to	83.470	10.7%
Occ.	6117	(enlisted)	58,310	to	65,300	
Occ.	6116	(officers)	17,105	to	18,170	

MG 02 - Provincial Administration

1981 Census 1986 Census	284,700 305,885
1981-1986	7%
1981-1983 LFS	4%
1983-1986 SEPH	0.496

The trends are similar.

MG 03 - Local Administration

1981 Census 1986 Census	262,255 288,085	
1981-1986	10%	
1981-1983 LFS	7%	
1983-1986 SEPH	396	

General trends are in agreement.

MG 04 - Other Government Offices

1981 Census 1986 Census	2,165 1,795
1981-1986	-17% -12%

Counts are too small to be examined more closely.

Division 12 - Industry Unspecified or Undefined

1981 Census	493,835
1096 Consus	591 975

A 6% increase in the Unspecified and Undefined. This is basically the same as the increase in the universe of persons who worked since January 1 of the previous year (1980 or 1985 as applicable).

1981 Census 13,129,260 1986 Census 13,857,775

An increase of 6%.

VIII. HISTORICAL CONSIDERATIONS REGARDING CENSUS INDUSTRY DATA

This discussion is not designed to be exhaustive, but rather to answer some of the more frequently occurring questions that are asked by data users, both inside and outside the Bureau. Section B, covering STATPAK code for data retrieval of industry information, will be of interest only to those persons who have access to the census data bases. It is included in this document for the purpose of completeness, since many requests for clarification of industry concepts come from Statistics Canada staff accessing these data bases.

A. Availability of Comparable Data

Although industry (or combined industry/occupation) data are available from census publications since the last century, comparable data to that processed by the 1986 Census are available only since 1951. The 1971 publication "Industry Trends, 1951-1971", Cat. No. 94-793, contains data from the 1951 and 1961 Censuses which have been manually converted to the 1970 SIC wherever possible and shown in comparison with 1971 Census data. This conversion of 1951 and 1961 data involved a variety of methods. In its simplest application, complete classes as found in the 1951 and 1961 SICs were added to or subtracted from other complete classes to appropriately reflect changes in the classification structure. When the classification changes were below the level of the class (i.e. the lowest level at which data were collected), other methods such as ratio estimations or adjustments based on industry/occupation combinations were applied. In addition to the tables of detailed industry data for Canada and the provinces, this publication also offers Canada and province data for selected industries cross-classified by a number of other variables such as age, level of schooling, marital status and ethnic origin. An appendix to the publication details the types of data conversions that were done.

It should be emphasized that this publication, or portions of the same tables published in other census industry trend bulletins (e.g., the 1986 publication "Industry Trends, 1951-1986", Cat. No. 93-152, contains an extract of the 1951, 1961 and 1971 data for industry divisions only) are the only sources of comparable data for 1951 and 1961. Unlike 1971, 1981 and 1986, there are no data files or data bases for 1951 and 1961 from which this comparable data can be retrieved. The data contained in the 1951 and 1961 SICs as applicable and cannot be directly compared.

With the availability of bases for 1971, 1981 and 1986 Census data, each of which contains a grouping of industry data in the form of the 1970 Standard Industrial Classification, it is possible to retrieve data that are historically comparable. Due to slight changes made to census processing of the labour force activity variables (e.g., labour force, employment) in 1981 and 1986, industry data for these years are retrieved using a special variable for labour force activity that recreates as much as possible the 1971 definition.

There are several additional points to be considered when comparing census industry data. $\begin{tabular}{ll} \hline \end{tabular}$

(a) With the exception of the 1981 and 1986 Census industry trend bulletins, no print publications from these census years contain historically comparable industry data. Although 1981 data were published using the 1970 SIC, the data for Division 12 (Industry Unspecified or Undefined) were redistributed among industry major groups based on selected socio-economic conditions. This was not done in 1971, or 1986 when industry is regrouped according to the 1970 SIC. In 1986, the 1980 SIC was used in the majority of the printed tables.

- (b) Due to 1971 and 1981 data quality problems with 1970 SIC Classes 295 Smelting and refining and 296 - Aluminum rolling, casting and extruding, these classes should be combined when data from these years are tabulated.
- (c) Because of 1971 data quality problems with 1970 SIC Classes 323 Motor vehicle manufacturers and 325 - Motor vehicle parts and accessories manufacturers, these classes should be combined when data for 1971 is tabulated.
- (d) Because of 1986 data quality problems with 1970 SIC Classes 822 Related health care institutions and 828 - Welfare organizations, these classes are combined on the 1986 data base and cannot be retrieved separately for that census year.
- (e) Because of considerations involved in the creation of the Industry Coding Manual, Classes 051 - Placer gold mines and 052 - Gold quartz mines are combined on the 1986 data base and cannot be retrieved separately for that census year.
- (f) Individual codes for type of farm (i.e. SIC codes 001-019) should be combined in 1971 and 1981 tabulations to the general entry "Farms" because of data quality problems associated with the more detailed level of coding. The individual codes are not available on the 1986 data base and cannot be retrieved separately for that census year.

B. STATPAK Code Required in Retrieval of Historical Data

Since the 1971, 1981 and 1986 Census industry data on the basis of the 1970 SIC are stored in RAPID data base files from which data retrievals can be made, it is possible to create new cross-tabulations with other census variables. The following considerations apply to the code required when retrieving these industry data. They reflect the application of data quality constraints mentioned previously, as well as special requirements that have to be followed for the different census years. This section is intended only for those persons who have direct access to census data bases.

1. 1971 Census

On the 1971 Census data base, the industry variable is stored as a 3-digit numeric, with codes ranging from 000 to 999. Division 12 - Industry Unspecified or Undefined, is coded 000. All respondents who do not have an industry value are coded 998 (e.g., persons in the labour force who have not held a job in the previous 17 months or persons less than 15 years of age).

Besides the regular farm codes 001, 003, 011, 013, 015, 017 and 019 shown in the 1970 version of the SIC, there is a code 005 - Farms, type unknown, which was used extensively in census coding when there was insufficient information to code to a specific farm type. It is recommended that codes 001 to 019 be combined in the general entry "Farms" in any data retrievals, since the quality of the individual code assignments are suspect.

As stated previously, codes 295 and 296 and codes 323 and 325 should be combined because of data quality problems with these codes in 1971. In addition

to these data quality problems, the publication on Industry Trends, 1951-1971 contained corrections to 1971 data due to coding errors in connection with provincial and local government highway maintenance workers. This correction was not made to the 1971 data when published in 1986, since the extent of 1981 and 1986 miscodes was unknown. If this data adjustment for 1971 is required, the adjustment can be made as follows:

- (a) Find the number of respondents in occupation Minor Group 871 -Excavating, paving and related occupations (8710-8719) in industry Class 931 - Provincial administration and industry Class 951 - Local administration.
- (b) Subtract those respondents coded to occupation code 8715, Railway sectionmen and trackmen from the counts in Step 1.
- (c) The two remaining counts from the calculation in step (b) are the numbers that must be subtracted from SIC Classes 931 and 951 respectively to make the data adjustment for the miscodes. These two counts are then added to SIC Class 516 - Highway and bridge maintenance to complete the adjustment.

To define the different populations or sub-populations to be used in 1971 Industry tabulations, the following points should be considered:

- (a) Use the universe POPTOTAL.
- (b) Combine the variables LFCODE1 and LFCODE2 as follows:

Employed LFCODE1 2-4 and 9-10
Unemployed LFCODE1 6 and 7
Labour force LFCODE1 2-4 and 6-7 a

Labour force LFCODE1 2-4 and 6-7 and 9-10
Experienced labour force LFCODE1 2-4 and 6-7 and 9-10
LFCODE2 4 and 5 and 6

Not in labour force LFCODE1 1 and 5

Population 15 years and over LFCODE1 1-7 and 9-10

- (c) There are two ways to tabulate industry by the class of worker:
 - (i) Class of worker values can be taken directly from the variable WORKTYPE if it is not required to separate the category of selfemployed in an incorporated business for addition with employees to form paid workers.

NOTE: The addition of the two categories is often done in census data retrievals or publications, since the self-employed in an incorporated business can be considered as receiving a salary from their own incorporated business (as they are by the System of National Accounts and other Statistics Canada surveys).

(ii) When it is necessary to show separately the self-employed in an incorporated business (or include the counts in a total for paid workers), the variables WORKTYPE and INCORBUS (i.e. incorporation status of business) should be used to define any of the categories required in the following manner: 1 - Unpaid family worker WORKTYPE 1 2 - Employees WORKTYPE 5

3 - Self-employed incorporated WORKTYPE 4 and INCORBUS 3 (with paid help)

4 - Self-employed incorporated WORKTYPE 3 and INCORBUS 3 (without paid help)

5 - Self-employed unincorporated WORKTYPE 4 and INCORBUS 1

(with paid help)
- Self-employed unincorporated WORKTYPE 3 and INCORBUS 1

(without paid help)
- Paid workers #2 + #3 + #4

8 - Self-employed unincorporated #5 + #6 9 - Employers (including incorporated) #3 + #5 10 - Own account (including incorporated) #4 + #6

2. 1981 Census

7

(a) General

On the 1981 Census data base, the industry variable is stored as a 5character coded variable, with the exception of the code for "Not Applicable", which is NOT_APP. Every other code begins with the letter I, followed by three numbers representing the 1970 SIC and a final character which is either 0 or I.

The second I indicates that this code represents a response that was originally INVALID, BLANK or NOT CODABLE and has now been assigned a code based on comparison of other socio-economic information for this respondent to a "donor" respondent with a valid industry code. This assignment took place in the imputation stage of E & I processing. Whenever 1981 industry data are being compared to other census years, these imputed codes have to be combined to recreate the INVALID, BLANK or NOT CODABLE category as Division 12 - Unspecified or Undefined, since it was only in 1981 that the imputation of data based on 1970 SIC codes was done. In 1971 no imputation was done. In 1986, only data based on the 1980 version of the SIC were imputed.

For 1981 Census data, there are only two aggregations of codes required for data quality reasons. The first is the combination of codes 12950 - Smelting and refining, and 12960 - Aluminum rolling, easting and extruding. The second is the aggregation of all farming codes (i.e. 10010, 10030, 10050, 10110, 10130, 10150, 10170 and 10190) into one general entry "Farms". Of course, when comparing to other census years, it is appropriate to combine 1981 data in those classes which are subject to data quality considerations in the respective census year being compared.

(b) For Historically Comparable Retrievals

To define the different populations or subpopulations to be used for historically comparable 1981 industry tabulations the following points should be considered:

(i) To select a universe

-Do NOT use the universe LABFOR, since there are restrictions in this universe based on values of the labour force variable LFTAG and this is not the variable to be used to define historically comparable labour force categories.

-Use the universe EDUCLFR if not in the labour force counts for institutional residents are required.

-Otherwise, use the universe EDUCLF.

(ii) To define the different labour categories, use the 1981 variable LF71

Employed	LF71 1-5
Unemployed	LF71 8-10
Total labour force	LF71 1-5 and 8-10
Experienced labour force	LF71 1-5 and 8 and 10
Not in the labour force	LF71 6 and 7
(including institutional residents)	
Population 15 years and over	LF71 1-10
(including institutional residents)	

(iii) When cross-tabulating by class of worker if, as outlined in the discussion for 1971 data, it is required to include the category of persons self-employed in an incorporated business with paid workers, the variable COWD should be used. If this is not required, the variable COW can be used. The variable COWD is a derived variable that has been created from original class of worker and incorporation status values.

(c) Other Data Retrievals

Other than the 1981 industry trend bulletins, 1981 data were published based on a 1981 definition of the labour force and including imputed values at the major group level for responses which were originally INVALID, BLANK or NOT CODABLE.

To define the different populations or subpopulations to be used when comparing to this 1981 published data, the following points should be considered:

(i) To select a universe

-If only values for the labour force are required, use the universe LABFOR (which is restricted to the labour force as defined by the variable LFTAG).

-Use the universe EDUCLF if not in the labour force counts are required.

(ii) To define the different labour categories, use the variable LFTAG on the 1981 data base as follows:

Employed	LFTAG 1-4
Unemployed	LFTAG 5-17
Total labour force	LFTAG 1-17
Experienced labour force	LFTAG 1-10 and 14-15
Not in the labour force	LFTAG 18-21
Population 15 years and over	LFTAG 1-21
(Excluding institutional residents)	

3. 1986 Census

(a) General

On the 1986 Census data, base there are two variables available for retrieval of industry data. The variable to be used for historical comparisons is IND70, which is a coded variable based on the 1970 SIC. There is another variable which is often used for more current comparisons to other surveys. This variable, IND80, is a coded variable based on the 1980 version of the SIC.

(b) For Historically Comparable Retrievals

As mentioned, IND70 is based on the 1970 SIC. It is stored as a 5-character coded variable, with the exception of the code for "Not Applicable", which is NOT_APP. Every other code begins with the letter I, followed by three numbers representing the 1970 SIC and a final number 0. Industry Division 12 - Industry Unspecified or Undefined is represented by the single code 10000.

On the 1986 Census data base, those data quality and processing problems that required combining of codes have been done directly on the data base. It is not possible to individually retrieve the components, as it is on the 1971 and 1981 Census data bases.

The combined codes are:

- I0010 this represents all farm SICs (codes 001 to 019).
- I0500 this represents the two classes for Gold mines (i.e. Class 051 -Placer gold mines and Class 052 - Gold quartz mines.
- 18220 this represents two of the classes in Health and welfare services (i.e. Class 822 - Related health care institutions and Class 828 -Welfare organizations).

To define the different populations or subpopulations to be used for historically comparable 1986 industry tabulations, the following points (which are very similar to the ones discussed for 1981 retrievals with the exception that the actual code numbers are different) should be considered:

(i) To select a universe

- Do NOT use the universe LABFOR, since there are restrictions in this universe based on values of the labour force variable LFTAG and this is not the variable to be used to define historically comparable labour force categories.
- Use the universe EDUCLFR if not in the labour force counts for institutional residents are required.
- Otherwise, use the universe EDUCLF.
- (ii) To define the different labour categories, use the 1986 variable LF71 as follows:

Employed	LF71 1-5
Unemployed	LF71 9-11
Total labour force	LF71 1-5 and 9-11
Experienced labour force	LF71 1-5 and 9 and 11
Not in the labour force	LF71 7 and 8
(including institutional residents)	
Population 15 years and over	LF71 1-5 and 7-11
(including institutional residents)	

(iii) When cross-tabulating by class of worker if, as outlined in the discussion for 1971 data, it is required to include the category of persons self-employed in an incorporated business with paid workers, the variable COWD should be used. If this is not required, the variable COW can be used. The variable COWD is a derived variable that has been created from original class of worker and incorporation status values.

(c) Other Data Retrievals

Other than the 1986 industry trend bulletins, 1986 data were published based on the 1980 SIC (using the variable IND80) with a 1986 definition of the labour force and including imputed values at the major group level for responses which were originally INVALID, BLANK or NOT CODABLE. The variable IND80 is a 5-character coded variable, with the exception of the code for "Not Applicable" which is NOT_APP. Every other code begins with the letter I, followed by three numbers representing the 1980 SIC and a final character which is either 0 or I.

As with the 1981 variable INDUSTRY, the second I represents a response that was originally INVALID, BLANK or NOT CODABLE and has now been assigned a code based on comparison of other socio-economic information for this respondent to a "donor" respondent with a valid industry code. As previously mentioned, this assignment takes place in the imputation stage of E & I.

Further information on which 1980 SIC codes are available is given in the second section of Chapter IV (Level of Detail Available in 1986 Industry Data Based on the 1980 Standard Industrial Classification).

To define the different populations or subpopulations to be used for the 1980 SIC, the following points should be considered:

(i) To select a universe:

- If only values for the labour force are required use the universe LABFOR (which is restricted to the labour force as defined by the variable LFTAG).
- Use the universe EDUCLF if not in the labour force counts are required.
- (ii) To define the different labour categories, use the variable LFTAG on the 1986 data base as follows:

Employed	LFTAG 1-4
Unemployed	LFTAG 5-17
Total labour force	LFTAG 1-17
Experienced labour force	LFTAG 1-10 and 14-15
Not in the labour force	LFTAG 18-21
Population 15 years and over	LFTAG 1-21
(excluding institutional residents)	

APPENDIX A
TABLES



87

Table 1. Distribution (Number and Percentage) of Imputed Values by Industry Major Group, Canada, 1986 Census

	Total (incl. imputed)	% dist. ²	Without imp.	% dist.2	Imputed	% dist. ²
All Industries ¹	13,858,490	100.0	13,336,365	100.0	522,125	100.0
MG 01 - Agricultural Industries	544,965	3.9	528,355	4.0	16,610	3.2
MG 02 - Serv. Ind. Incidental to Agr.	23,880	0.2	23,035	0.2	845	0.2
MG 03 - Fishing & Trapping Ind.	54,070	0.4	51,920	0.4	2,145	0.4
MG 04 - Logging Industry	85,920	0.6	82,645	0.6	3,280	0.6
MG 05 - Forestry Serv. Industry	39,035	0.3	37,420	0.3	1,615	0.3
MG 06 - Mining Industries	84,465	0.6	81,580	0.6	2,885	0.6
MG 07 - Crude Pet. & Nat. Gas Ind.	61,925	0.4	60,465	0.5	1,460	0.3
MG 08 - Quarry & Sand Pit Ind.	12,025	0.1	11,590	0.1	435	0.1
MG 09 - Serv. Ind. Incid. to Mineral Extract.	46,400	0.3	44,700	0.3	1,700	0.3
MG 10 - Food Industries	278,070	2.0	267,990	2.0	10,075	1.9
MG 11 - Beverage Industries	40,625	0.3	39,270	0.3	1,355	0.3
MG 12 - Tobacco Products Ind.	8,260	0.1	7,975	0.1	285	0.1
MG 15 - Rubber Products Ind.	26,610	0.2	25,935	0.2	680	0.1
MG 16 - Plastic Products Industries	54,100	0.4	51,990	0.4	2,110	0.4
MG 17 - Leather & Allied Prod. Ind.	31,220	0.2	29,675	0.2	1,545	0.3
MG 18 - Primary Textile Industries	28,565	0.2	27,575	0.2	990	0.2
MG 19 - Textile Products Industries	44,335	0.3	42,440	0.3	1.895	0.4
MG 24 - Clothing Industries	159,300	1.1	151,040	1.1	8,260	1.6
MG 25 - Wood Industries	150,385	1.1	144,700	1.1	5,685	1.1
MG 26 - Furniture & Fixture Ind.	70,600	0.5	67,595	0.5	3,005	0.6
MG 27 - Paper & Allied Prod. Ind.	137,115	1.0	132,740	1.0	4,375	0.8
MG 28 - Printing, Pub. & Allied Ind.	177,775	1.3	170,445	1.3	7,335	1.4
MG 29 - Primary Metal Industries	131,595	0.9	127,575	1.0	4,020	0.8
MG 30 - Fab. Met. Prod. Ind. (Exc. Mac. &	,	• • • •	,,,,,,		-,020	0.0
Transp. Equip. Ind.	181,280	1.3	174,695	1.3	6,585	1.3
MG 31 - Mach. Ind. (Exc. Elect. Mach.)	89,650	0.6	86,660	0.6	2,990	0.6

Note: See footnotes at end of table.

Table 1. Distribution (Number and Percentage) of Imputed Values by Industry Major Group, Canada, 1986 Census - Continued

	Total (incl. imputed)	% dist.2	Without imp.	% dist. ²	Imputed	% dist. ²
MG 32 - Transp. Equip. Industries	253,355	1.8	244,845	1.8	8,510	1.6
MG 33 - Electrical & Electronic Prod. Ind.	173,580	1.3	167,635	1.3	5,945	1.1
MG 35 - Non-Metallic Mineral Prod. Ind.	65,225	0.5	62,765	0.5	2,460	0.5
MG 36 - Refined Pet. & Coal Prod. Ind.	26,850	0.2	26,110	0.2	740	0.1
MG 37 - Chem. & Chem. Prod. Ind.	110,195	0.8	106,515	0.8	3,685	0.7
MG 39 - Other Manufacturing Industries	104,390	0.8	100,490	0.8	3,900	0.7
MG 40 - Bldg Dev. & Gen. Contracting Ind.	208,885	1.5	200,505	1.5	8,375	1.6
MG 41 - Ind. & Heavy (Engin.) Const. Ind.	106,755	0.8	102,445	0.8	4,305	0.8
MG 42 - Trade Contracting Ind.	484,240	3.5	466,690	3.5	17,550	3.4
MG 44 - Serv. Ind. Incidental to Const.	12,810	0.1	12,235	0.1	575	0.1
MG 45 - Transp. Industries	577,045	4.2	556,490	4.2	20,560	3.9
MG 46 - Pipeline Transport Industries	8,170	0.1	8,010	0.1	160	0.0
MG 47 - Storage & Warehousing Ind.	18,090	0.1	17,420	0.1	670	0.1
MG 48 - Communication Industries	290,920	2.1	281,520	2.1	9,400	1.8
MG 49 - Other Utility Industries	143,935	1.0	139,545	1.0	4,395	0.8
MG 50 - Farm Products Ind., Wholesale	15,940	0.1	15,270	0.1	670	0.1
MG 51 - Pet. Prod. Ind., Wholesale	28,370	0.2	27,340	0.2	1,030	0.2
MG 52 - Food, Bev., Drug & Tob. Ind., Wsale	92,515	0.7	89,065	0.7	3,450	0.7
MG 53 - Apparel & Dry Goods Ind., Wsale	20,145	0.1	19,140	0.1	1,005	0.2
MG 54 - Hhld Goods Industries, Wsale	21,695	0.2	20,890	0.2	805	0.2
MG 55 - Motor Veh., Parts & Access. Ind., Wsale	62,945	0.5	60,650	0.5	2,300	0.4
MG 56 - Metals, Hardw., Plum., Heat. & Bldg. M		*				
Ind., Wsale	103,140	0.7	99,515	0.7	3,620	0.7
MG 57 - Mach., Equip. & Supplies Ind., Wsale	177,575	1.3	171,680	1.3	5,895	1.1
MG 59 - Other Prod. Ind., Wsale	98,485	0.7	94,570	0.7	3,915	0.8
MG 60 - Food, Bev. & Drug Ind., Retail	495,240	3.6	474,390	3.6	20,850	4.0
MG 61 - Shoe, Apparel, Fab. & Yarn Ind., Retail		1.3	166,890	1.3	7,940	1.5

Note: See footnote at end of table.

Table 1. Distribution (Number and Percentage) of Imputed Values by Industry Major Group, Canada, 1986 Census - Concluded

	Total (incl. imputed)	% dist. ²	Without imp.	% dist. ²	Imputed	% dist.
MG 62 - Hhld Furn., Appl. & Furnish. Ind., Retai MG 63 - Auto. Vehicles, Parts & Acc. Ind.,	1 110,340	0.8	106,110	0.8	4,230	0.8
Sales & Serv.	379,525	2.7	365,655	2.7	13,875	2.7
MG 64 - General Retail Merch. Ind.	306,970	2.2	293,765	2.2	13,210	2.5
MG 65 - Other Retail Store Ind.	256.330	1.8	244,750	1.8	11,580	2.2
MG 69 - Non-Store Retail Industries	45,335	0.3	43,830	0.3	1,505	0.3
MG 70 - Deposit Accept. Intermed. Ind.	287,945	2.1	279,330	2.1	8,615	1.7
MG 71 - Consum. & Bus. Fin. Intermed. Ind.	15,085	0.1	14,650	0.1	435	0.1
MG 72 - Investment Intermediary Ind.	28,230	0.2	27,170	0.2	1,060	0.2
MG 73 - Insurance Industries	131,420	0.9	127,360	1.0	4,065	0.8
MG 74 - Other Fin. Intermed. Ind.	29,175	0.2	28,220	0.2	955	0.2
MG 75 - Real Estate Oper. Ind. (Exc. Dev.)	89,030	0.6	85,270	0.6	3,760	0.7
MG 76 - Ins. & Real Estate Agent Ind.	156,415	1.1	151,825	1.1	4,590	0.9
MG 77 - Business Service Industries	639,410	4.6	617,000	4.6	22,415	4.3
MG 81 - Fed. Govt Serv. Ind.	443,190	3.2	426,220	3.2	16,970	3.3
MG 82 - Prov. & Territorial Govt Serv. Ind.	306,780	2.2	296,435	2.2	10,345	2.0
MG 83 - Local Govt. Service Industries MG 84 - Interntl & Other Extra-Ter. Govt	299,955	2.2	288,175	2.2	11,775	2.3
Serv. Ind.	1,855	0.0	1,795	0.0	60	0.0
MG 85 - Educational Service Industries	907,420	6.5	879,775	6.6	27,645	5.3
IG 86 - Health & Social Service Ind.	1,125,360	8.1	1,085,430	8.1	39,930	7.6
IG 91 - Accommodation Service Ind.	248,880	1.8	236,560	1.8	12,320	2.4
IG 92 - Food & Beverage Service Ind.	682,365	4.9	649,685	4.9	32,680	6.3
IG 96 - Amusement & Recreational Serv. Ind.	186,950	1.3	177,875	1.3	9,075	1.7
IG 97 - Personal & Hhld Service Ind.	311,045	2.2	296,845	2.2	14,205	2.7
IG 98 - Membership Organization Ind.	158,700	1.1	148,185	1.1	10,515	2.0
MG 99 - Other Service Industries	273,270	2.0	261,825	2.0	11,440	2.2

¹ Included in this total are partial response Indian reserves. For this reason, the total will not agree with other totals throughout the report.

Percentages are based on unrounded data.

Table 2. Population Who Worked since January 1, 1985 by Detailed Breakdown for Government Services Division, for Canada, Provinces and Territories

	Cana		Newfo	undland	Prince	Edw. Isl.	Nove	Scotia						
	No.	%	No.	%	No.	%	No.	96 96	New B	runswick %		bec		tario
										70	No.	%	No.	%
Impt Major Group 81	18,965	3.8	390											
8110 Defence Serv.	148,240	33.0	3.095	3.8	85		1,170		820	3.6	4,135	4.6		
8120 Protective Serv.	38,580	8.3		29.8	1,740	38.5	22,195	87.1	8.265	48.6	23,890			
8130 Lab. Emp. Imm. Serv.	32,135		980	9.2	255	5.8	1,590		1,465	8.6		26.5	46,330	
8140 For. Aff. int. Ass.		7.3	1,120	10.8	300	8.8	1,330		1,865	9.8	5,535	8.1	8,940	5.5
8150 Gen. Admin. Serv.	7,170	1.8	20	0.2	10	0.2	45	0.1	40		8,210	9.1	11,855	6.9
8160 Human Res. Admin.	130,685	29.5	2,770	28.8	495	11.0	2.965	9.0		0.2	1,440	1.6	5.140	3.0
9170 Paris C	22,500	5.1	430	4.1	1.070	23.7	810		2,665	15.7	35,660	39.5	59,430	34.4
8170 Econo. Serv. Admin.	50,885	11.5	1.615	15.5	580	12.4		2.4	825	3.7	4,125	4.6	9,225	5.3
MG 81 - Federal	443,185	100.0	10,395	100.0	4.515		2,970	9.0	1,660	9.8	7,245	8.0	25,320	14.7
			10,000	100.0	4,515	100.0	33,085	100.0	17,010	100.0	90,240	100.0	172,645	
Impt Major Group 82	10,340	3.4	510								00,210	100.0	172,045	100.0
8220 Protective Serv.	52,365	17.1		3.3	70	2.5	500	4.1	335	2.9	2,765	3.4		
8230 Lab. Empl. Serv.	10.810	3.5	1,415	9.1	230	8.4	1,440	11.9	1,455	12.6	13,755		2,600	3.4
8250 Gen. Admin. Serv.	92,525		215	1.4	65	2.4	235	1.9	290	2.5		17.0	19,540	25.3
8260 Human Res. Admin.		30.2	2,495	18.1	675	24.5	2,920	24.1	3,275		4,640	5.7	2,095	2.7
3270 Econo. Serv. Admin.	70,845	23.1	8,220	53.2	875	31.8	3,010	24.8		28.4	33,255	41.1	20,570	26.6
MG 82 - Provincial	69,870	22.8	2,610	18.9	825	30.0	4,015	33.1	2,855	23.0	10,385	12.8	15,910	20.6
nG az - Provinciai	306,760	100.0	15,465	100.0	2.750	100.0			3,535	30.6	16,035	19.8	16,475	21.3
			,	100.0	2,130	100.0	12,120	100.0	11,540	100.0	80,835	100.0	77,200	100.0
mpt Major Group 83	11.715	3.9	310	4.3	35								,200	100.0
3320 Protective Serv.	64,180	21.4	340	4.7		5.0	315	3.8	200	3.2	3.035	4.0	2 705	
350 Gen. Admin. Serv.	143,520	47.9	4.675		115	18.5	1,805	19.4	1.515	24.4	14,895	19.6	3,795	3.4
3360 Human Res. Admin.	82,080	20.7		84.3	310	44.8	4,190	50.7	3,110	50.0	48,405		29,025	26.2
370 Econo. Serv. Admin.	18,275		1,190	18.4	185	28.8	1,465	17.7	1,010	18.2	7,180	63.7	40,555	36.5
MG 83 - Local		8.1	745	10.2	55	7.9	885	8.3	380	6.1		9.4	28,980	26.1
	299,745	100.0	7,270	100.0	895	100.0	8,280	100.0	8,220		2,495	3.3	8,630	7.8
mpt Major Group 84							0,200	100.0	0,420	100.0	78,000	100.0	110,975	100.0
410 Inter. & Ex-ter. Gov.	60	3.2	0	0.0	0	0.0	5	50.0						
AC 04 January 1 Pro-	1,795	96.8	105	100.0	ō	0.0	10		.0	0.0	10	1.6	40	5.9
AG 84 - inter. & Ex-ter. Gov.	1,855	100.0	100	100.0	ŏ	0.0		100.0	55	100.0	615	99.2	635	93.4
					U	0.0	10	100.0	55	100.0	620	100.0	680	100.0
Div. N - Gov. Serv. ind.	1,051,530	0.0	33,225	0.0	7,960	0.0	53,470						680	100.0
					.,,,,,,	0.0	33,470	0.0	34,825	0.0	247,700	0.0	361,500	0.0

Table 2. Population Who Worked since January 1, 1985 by Detailed Breakdown for Government Services Division, for Canada, Provinces and Territories - Concluded

	Manito		Saskato	hewan	Albe	rta	British C	olumbia	Yul	ton	Northwe:	st Terr.
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
mpt Major Group 81	775	3.8	600	4.4	950	2.9	1,700	3.7	55	5.6	75	4.3
110 Defence Serv.	7,420	36.4	3,220	23.8	13,270	40.6	16,485	35.8	20	2.0	310	17.7
120 Protective Serv.	1,835	9.0	2.875	21.2	4,690	14.4	7,845	17.1	230	23.5	360	20.6
1130 Lab. Emp. imm. Serv.	1,230	6.0	950	7.0	1,820	5.6	3,510	7.6	60	6.1	90	5.5
140 For. Aff. int. Ass.	60	0.3	50	0.4	150	0.5	215	0.5	5	0.5	Ō	0.0
150 Gen. Admin. Serv.	5,780	28.4	3.385	25.0	7,240	22.2	9.880	21.5	175	17.9	235	13.5
160 Human Res. Admin.	1,135	5.6	915	6.8	1,675	5.1	1,930	4.2	205	20.9	365	20.9
170 Econo. Serv. Admin.	2,125	10.4	1,535	11.3	2,875	8.8	4,430	9.6	230	23.5	315	18.1
MG 81 - Federal	20,360	100.0	13,535	100.0	32,670	100.0	45,990	100.0	980	100.0	1,745	100.0
mpt Major Group 82	600	3.7	460	3.2	1,365	3.2	1,015	3.4	30	2.5	95	3.4
220 Protective Serv.	1,805	11.0	1,945	13.6	4,745	11.3	5,565	18.5	175	14.7	290	10.5
230 Lab. Empl. Serv.	625	3.8	410	2.9	1,355	3.2	855	2.8	15	1.3	10	0.4
250 Gen. Admin. Serv.	4,410	26.8	3,845	26.9	12,865	30.6	6,585	21.8	390	32.8	1,240	45.0
260 Human Res. Admin.	5,075	30.9	4,195	29.4	10,185	24.2	9,480	31.4	285	23.9	570	20.1
270 Econo. Serv. Admin.	3,920	23.9	3,420	24.0	11,540	27.4	6,655	22.1	295	24.8	545	19.8
IG 82 - Provincial	16,430	100.0	14,275	100.0	42,045	100.0	30,155	100.0	1,190	100.0	2,755	100.0
npt Major Group 83	580	4.5	550	4.4	1,105	3.5	1,540	5.0	60	6.8	180	9.1
320 Protective Serv.	2,360	18.4	2,100	16.9	6,075	19.4	6,045	19.6	25	2.8	65	3.5
350 Gen. Admin. Serv.	5,590	43.6	6,355	51.1	14,660	46.8	13,550	43.9	615	69.9	1.485	75.0
360 Human Res. Admin.	3,550	27.7	2,815	22.6	7,350	23.4	8,075	26.2	125	14.2	155	7.8
370 Econo. Serv. Admin.	745	5.8	605	4.9	2,165	6.9	1,635	5.3	45	5.1	95	4.8
IG 83 - Local	12,830	100.0	12,430	100.0	31,355	100.0	30,850	100.0	880	100.0	1,980	100.0
npt Major Group 84	0	0.0	0	0.0	0	0.0	5	2.4	0	0.0	0	0.0
410 Inter. & Ex-ter. Gov.	20	100.0	10	100.0	135	100.0	200	95.2	10	100.0	5	100.0
G 84 - Inter. & Ex-ter. Gov.	15	100.0	10	100.0	140	100.0	210	100.0	10	100.0	10	100.0
iv. N - Gov. Serv. Ind.	49,635	0.0	40,255	0.0	106,210	0.0	107,200	0.0	3,055	0.0	6,490	0.0

81 CENSUS LF SURVEY TOTAL TOTAL

86 CENSUS TOTAL

TABLE 8 COMPARESON OF 1980 SEC COUNTS FOR THE 1981 AND 1986
CENSUS AND MAY 1986 LF SUMMEY. THE 1981 CENSUS DATA IS BASED ON
A TRECORD SUMMEY. OF 1981 RESPONSE. ALL RETIFECTIONS ARE SASED ON
PREVIOUS YEAR (1980 OR 1985 AS APPLICABLE). CENSUS MAJOR GROUP
TOTAL FOR 1980 OR 1985 AS APPLICABLE). CENSUS MAJOR GROUP
TOTAL FOR 1981 DATA. THESE IMPUTED COUNTS SHOW IN THE
TOTAL FOR ALL INDUSTRIES ONLY.

NOTE : LFS FIGURES ROUNDED TO 1,000 AND SUPPRESSED LT 4,000

INDUSTRY

ANADA					
ALL INDUSTRIES	2.889.525	14.076.000	13.676.205	6.1	-2.8
MAJOR GROUP 01 AGRICULTURAL INDS		571,000	542.630		-5.0
DIVISION A: AGRICULTURE	529.725	27,000 599,000	23.805 566.435	6.9	-11.8 -5.4
031 FISHING INDUSTRIES	323.723	58.000	44.690	***	-15.7
032 SERVICES INCIDENTAL TO FISHING			4,715		
OSS TRAPPING	42.650	56,000	635 51,945	21.8	-7.2
DIVISION 3: FISHING AND TRAPPING	42,650	36,000	51.950	21.6	-7.2
MAJOR GROUP 04 LOGGING INDUSTRY	83.465	92,000	84,205	0.9	-8.5
MAJOR GROUP 05 FORESTRY SERVICES	24,555	24.000	87.405	52.3	35.9
DIVISION C: LOGGING AND FORESTRY	108.015	117,000 75,000	121.610 49.410	12.6	8.9 -84.1
062 NON-METAL MINES		13.000	15.795		21.5
063 COAL MINES		15.000	13.810		-7.9
MAJOR GROUP 06 MINING INDUSTRIES	112.360 51.580	103.000	81.660 61.315	-27.3 18.9	-20.7
081 STONE QUARRIES	51,500	36,000	4.845	10.7	3.7
082 SAND AND GRAVEL PITS		8,000	7.200		-10.0
MAJOR GROUP OB QUARRY AND SAND PIT INDS	9.670	12,000	11,980	28.9	-0.2
091 SERV IND INCID PET AND NAT GAS	80.420 12.150	39.000	28.050 16.080	-7.8 32.3	-28.1 78.7
MAJOR GROUP 09 SERV INDS INC TO MIN EXT	42.370	48,000	45.785	7.4	-4.7
DIVISION D: MINING	216,175	221,000	200,690	-7.2	-9.2
101 MEAT AND POULTRY PRODUCTS INDUSTR	52,460	50.000 66.000	51,550 67,000	-1.7	1.5
102 FISH PRODUCTS INDUSTRY	70.065 25.050	22,000	22,565	-9.9	2.6
104 DAIRY PRODUCTS INDUSTRIES	29,700	31,000	29.810	0.4	-3.8
105 FLOUR CEREAL AND FEED INDUSTRIES	18.575	18,000	19,950	47.0	10.8
106 VEGETABLE DIL MILLS (EXC CORN DIL) 107 BAKERY PRODUCTS INDUSTRIES	390 24.640	44.000	1.440 30.295	144.1 28.0	-81.1
108 SUGAP AND SUGAP CONFECTIONERY IND	14.505	13.000	13.890	-4.2	6.8
109 OTHER FOOD PRODUCTS INDUSTRIES	85.885	29.000	30.670	-14.5	5.8
MAJOR GROUP 10 FOOD INDUSTRIES	266,475	278,000	277.075	4.0	1.5
111 SOFT DRINK INDUSTRY	19.490	13,000	15,455	-20.7	18.9
113 SREWERY PRODUCTS INDUSTRY	18.585	20,000	16.235	-12.6	-18.8
114 WINE INDUSTRY	1.740		2.220	27.6	
MAJOR GROUP 11 SEVERAGE INDUSTRISS	44.985	40.000	40.570	-9.8 19.0	1.4
121 LSAF TOBACCO INDUSTRY		7,000	1.160 6.810	-12.5	-2.7
MAJOR GROUP 12 TORACCO PRODUCTS INDS	8.760	10,000	8.255	-5.B	-17.4
151 TIRE AND TUBE INDUSTRY	18.190	19.000	15.080	-17.1	-20.6
152 RUBSER HOSE AND SELTING INDUSTRY 159 OTHER RUSSER PRODUCTS INDUSTRIES	9.975	6.000	2.230 8.610	220.9	48.5
MAJOR GROUP 15 RUBBER PRODUCTS INCS	28.855	26,000	26.600	-7.8	2.3
161 FORMED AND EXPANDED PLASTICS PROD	4.010		4.820	20.2	
162 PLASTIC PIPE AND PIPE FITTINGS INDS	1.840		4.490	144.0	
163 PLASTIC FILM AND SHEETING INDS	1.220	60.000	5.090 27.560	317.2 -0.5	-87.4
MAJOR GROUP 16 PLASTIC PRODUCTS INDS	44.820	68,000	54.060	20.6	-20.5
	84.290	36.000	\$1.010	-9.6	-18.9
181 MAN-MADE FIBRE AND FILAMENT YARN 182 SPUN YARN AND WOVEN CLOTH INDS	9,220	19.000	5.700 18.780	-38.2 -15.9	-5.0 -1.2
182 SPUN YARN AND WOVEN CLOTH INDS	14.763	19,000	3.075	-79.2	-1.2
MAJOR GROUP 18 PRIMARY TEXTILE INDS	46.820	26,000	28,535	-38.4	9.7
191 NATURAL FIBRES PROCESS. AND FELT	1.640		1.525	-7.0	
192 CARPET, MAT AND RUG INDUSTRY	8.150 2.690	7.000	6.865 3.640	-15.8 35.3	-1.9
199 OTHER TEXTILE PRODUCTS INDUSTRIES	38.240	36,000	30.360	-20.6	-15.7
MAJOR GROUP 19 TEXTILE PRODUCTS INCS	50,715	45.000	44.280	-12.7	-1.6
243 MEN'S AND BOY'S CLOTHING INOS	54.755	54.000	89.125	-28.5	-27.5
244 HOMEN'S CLOTHING INDUSTRIES 245 CHILDRSN'S CLOTHING INDUSTRY	58,685 8,875	55.000 15.000	45.745	-14.7	-16.8
249 DIMER CLOTHING AND APPAREL INCE	34.255	46,000	56.895	66.1	28.7
MAJOR GROUP 24 CLOTHING INDUSTRIES	151.520	170,000	159,110	5.0	-6.4
251 SAWHILLS PLAN. MILLS AND SHINGLE	93.710	77,000	80.655 10.660	-13.9 -22.0	6.6
252 VENEER AND PLYWOOD INDUSTRISS	13.660 33.850	43,000	34.545	2.1	-12.7
256 WOODEN BOX AND PELLET INDUSTRY	3.335	5.000	4,115	23.4	-17.7
258 COFFIN AND CASKET INDUSTRY	1.005		1,160	15.4	
259 OTHER WOOD INDUSTRIES	8.765 154.330	15.000	12.415 149.015	41.6	-17.2 -2.0
MAJOR GROUP 25 WOOD INDUSTRIES	81,945	49,000	40.315	26.2	-17.7
264 OFFICE FURNITURE INDUSTRIES	8.065	9.000	10,395	28.9	15.5
269 OTHER FURN AND FIXTURE INDS	28.855	10.000	16.815	-28.0	68.1
MAJOR GROUP 26 FURN AND FIXTURE INDS	68.365 38.345	68.000 91.000	70.515 93.870	11.8	8.7 3.2
271 PULP AND PAPER INDUSTRIES	1,800	,1,000	1,170	-85.0	
273 PAPER BOX AND BAG INDUSTRIES	80.085	16.000	19,385	-85.5	21.2
279 OTHER CONVERTED PAPER PRODUCTS INDS	20.975	18,000	18,125	-13.6	0.7

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TABLE D COMMANISM OF 1980 REC COUNTS FOR THE 1981 AND 1980 CHROWS AND MAY 1986 IT SURVEY. THE 1990 CHROW OAT IS BASED ON A RECORD GAMPA OF 1981 RESPONSES. ALL SETTEMALS ARE BASED ON PREVIOUS FARK 1980 OF 1985 AS APPLICABLE. CHROWN AND SHOW TO THAK FOR 1986 COMMAND GATE THAT WAS IMPUTED TO THE RESPECTIVE TOTALS FOR 1986 COMMAND GATE THAT WAS IMPUTED TO THE RESPECTIVE TOTAL FOR ALL INDUSTRIES GRAVE THE SURVEY GATE TO THE SERVICE OF THE SER

NOTE : LFS FIGURES ROUNDED TO 1.000 AND SUPPRESSED LT 4.000

	NOTE : LFS FIGURES ROUNGED TO	1.000 ANO	SUPPRESSEO LT	4.000		
	INOUSTRY		LF SURVEY	86 CENSUS	% CHNG	% CHNG
MA 108	GROUP 27 PAPER AND ALLIED PRODS	TOTAL 151.350	TOTAL 127.000	TOTAL 136.880	86-81 -9.6	86-LF6 7.8
281	COMMERCIAL PRINTING INOUSTRY	70.315	94.000	78.680	11.9	-16.3
282	PLATEMAK TYPESET AND BINGERY INDS	24.100	21.000	24.150	0.2	15.0
283	PUBLISHING INOUSTRIES	16.375	28.000 43.000	21.770 45.505	32.9 -5.1	-22.2 5.8
MAJOR	GROUP 28 PRINT, PUBL AND ALLIED	158,760	186.000	177.895	11.7	-4.6
291	PRIMARY STEEL INQUSTRIES	78.865	83.000	58.680 8.050	-20.6 7.5	-29.3
292	STEEL PIPE AND TUBE INDUSTRY	7.490	6.000	10.020	-4.0	67.0
295	NON-FERROUS METAL SMELT AND REFI	21.805	27.000	31,925	46.4	18.2
296	ALUMINUM ROLL CAET AND EXTRUD INDE COPPER AND COPP ALL ROLL CAST N E	20.185 3.965	11,000	8.720 3.250	-56.8 -18.0	-20.7
		6.840		6.805	-0.5	
MAJOR	GROUP 29 PRIMARY METAL INOS	144.585	137,000	181.410	-9.1	-4.1
301	POWER BOIL AND HEAT EXCH INGS	5.740 25.235	12.000	5.500 17.790	-4.2	48.2
303	ORNAMENTAL AND ARCHIT METAL PROD	20.685	14,000	18,090	-12.5	29.2
	STAMP PRESS AND COAT MET PROD	48.855	88,000 17,000	84.245 16.010	-21.0 -19.7	3.8 -3.8
306	MAROWARE, TOOL AND CUTLERY INDS	28,210	28,000	27.115	-8.9	-3.2
		4.970	7.000	5.625	18.2	-19.6
308	MACHINE SHOP INDUSTRY OTHER METAL FABRICATING INDS GROUP SO FAB METAL PRODUCTS INDS AGRICULTURAL IMPLEMENT INDUSTRY	27,125	26.000 24.000	28.325 21,845	-18.7	8.9 -9.0
MAJOR	GROUP 30 FAB METAL PRODUCTS INDS	200.560	164.000	181.090	-9.7	10.4
311	AGRICULTURAL IMPLEMENT INDUSTRY	19.980	15.000	11.285	-48.6	-25.1 13.5
312	COMM REFRIG AND AIR CONG EQUIP	5.280 78,285	5.000	5.675 69.695	8.5 -11.0	18.1
MAJOR	OTHER MACH AND EQUIP INDS	103,450	80,000	89.565	-18.4	12.0
321	AIRCRAFT AND AIRCRAFT PARTS INDS	40.585 55.880	41.000 72.000	36.885 66,430	-9.1 18.9	-10.0 -7.7
323 324	HOTOR VEHICLE INOUSTRY	19.055	15,000	16.215	-14.9	-7.7 8.1
825	MOTOR VEHICLE PARTS AND ACCESSORIES RAILROAD ROLLING STOCK INDS	64.645	94.000	90.755	40.4	-3.5
326	RAILROAD ROLLING STOCK INDS	14.025	8.000 17.000	9.115 15.250	-85.0 -14.2	18.9
827 828	SMIPBUILDING AND REPAIR INDS	17.765 8.085	11.000	7.345	-14.2	-33.2
329	OTHER TRANSP EQUIP INDS	1.050	8.000	2,620	149.5	-67.2
MAJOR	GROUP 32 TRANSPORT EQUIP INDS	8,900	17.000	253.065 5.000	14.5 -43.8	-4.5 -70.6
332	MAJOR APPLI INDS (ELECT AND NON-E)	11.715	15,000	11.280	-8.7	-24.8
333	ELECTRIC LIGHTING INDUSTRIES	10,665	7.000	9.695	-9.1 -10.5	-3.0 -41.9
884	COMM AND OTH ELEC EQUIP INDS	4,550	7.000	4.070 63.065	17.8	-15.9
336	OFF STORE AND BUS MACHINE INDS	22.250	34.000	27.620	24.1	-18.8
337	ELECTRICAL INDUSTRIAL EQUIP INDS COMM AND ENERGY WIRE AND CABLE I	28.505 9.220	7.000	22.700 10.780	-20.4 16.2	88.5 54.0
339	OTHER ELECTRICAL PRODUCTS INDE	17.540	15,000	18,850	-28.9	-11.0
MAJOR	SPOUP 33 FLEC AND ELECTRONIC PROD	166.900	195.000	173.480	3.9	-11.0
351	CLAY PRODUCTS INDUSTRIES	7.265	5.000 6.000	4.965	-81.7 -6.4	-0.7 -8.2
114	CONCRETE PRODUCTS INDUSTRIES	12.845	15.000	10.090	-21.4	-32.7
855	READY-MIX CONCRETE INDUSTRY	11.760	10,000	11.830	0.6 -6.8	18.3
356	ABRASIVES INDUSTRY	3.040	20.000	2.080	-81.6	-22.7
358	LIME INDUSTRY	1.875		840	-38.9	
859	GROUP 85 NON-METALLIC MIN PRODS	14.155	10.000 68.000	11.840 65.055	-16.4 -10.8	18.4
MAJOR 361	PEFINED PETROLEUM INDUSTRIES	26.345	23.000	24.890	-5.5	8.2
369	OTH. PETROLEUM AND COAL PRODS INC	1.650		1.170	-29.1	
MAJOR	GROUP 36 REF PET AND COAL PROOS	28.000 30.280	27.000 28.000	26.790 25.610	-4.8	-0.8 -8.5
372	GROUP 50 NUMBERALES INDUSTRIES. OTH. PETROLEUM AND COAL PRODE INO. GROUP 56 REF PET AND COAL PROOS. INDUSTRIAL CHEMICAL INDS. N.E.C. AGRICULTURAL CHEMICAL INDUSTRIES. PLAETIC AND SYNTHETIC RESIN INDS.	4,515	7.000	7.890	74.8	12.7
373	PLAETIC AND SYNTHETIC RESIN INDS	6.960 17.485	27.000	8.000 17.650	14.9	-34.6
374	PHARMACEUTICAL AND MEDICINE INDS	8.655	11,000	8,405	-2.9	-21.6
376	PAINT AND VARNISH INDUSTRY	6.680	8.000	8.320	24.6	4.0
377	TOILET PREPARATIONS INDUSTRY	8.845 18.265	8.000	10.500	18.7	31.3 5.8
		101 680	110,000	110,150	8.3	0.1
391	SCIENT AND PROFEE EQUIP INOS	80.740	21.000	25.780	-16.1	22.8
392	SPORTING GOODS AND TOY INDS	9.005	13,000 17,000	9.385 14.975	4.2 -5.7	-27.8 -11.9
897	SIGN AND DISPLAY INDUSTRY	8.675	9.000	10.650	22.8	18.3
399	GROUP 39 OTHER MANUFACTURING INDS	29.680	85.000 95.000	89.520 104.190	10.9	12.9
DIVISION	N E: MANUFACTURING	2.337.725	2.366.000	2.338.105	0.0	-1.2
		48.185	195,000	153.710	219.0	-21.2
402	NON-REGIOENTIAL BUILD AND DEVELOP GROUP 40 BUILD, DEV AND GEN CONT INDUSTR CONSTR (OTH THAN BUILD)	141.255	38.000 233.000	42.985 204.580	-69.6 B.0	13.1
411	INDUSTR CONSTR (OTH THAN BUILD)	6.985	28.000	26.115	276.6	18.5
		125.700	78.000	75.065	-40.8	-3.8
HAJOR	GROUP 41 ING AND HEAVY CONST INDS	182.640	101.000	105.335	-20.6	4.3
422	STRUCTURAL AND RELATED WORK	26,285	\$8.000	58,750	104.5	41.4
428	EXTERIOR CLOSE-IN WORK	55.620	67.000	68.265	22.7	1.9
424	PLUMB. HEAT AND AIR COND. MECH	58.520 9.625	66.000 12.000	64.470 18.055	10.2 87.6	-2.8 50.5
725						

TABLE 3 COMPAREEON OF 1980 EIC COUNTE FOR THE 1981 AND 1986 CHINGE AND NAY 1986 LE SUMPLE THE 1982 CHINGE AND THE ABED ON THE 1982 CHINGE AND THE ABED ON THE LIFE UNIVERSE, FOR PRECODE HIMO MOVERS EICH. STRIVALE ARE BARED ON THE LIFE UNIVERSE, FOR PRECODE HIMO MOVERS EINCE JAN. 1817 OF THE PREVIOUS YEAR (1980 DR 1985 AS APPLICABLE), CHINGE HANDE GROUP TOTALE FOR 1980 CONTRAIN DATA THAT MAY ENTURED TO THE RESPICTIVE MAJOR GROUPS. ONE 1981 OATA. THREE IMPUTED TO THE RESPICTIVE TOTAL FOR ALL INVESTIGE ONLY.

NOTE : LFE FIGUREE ROUNDED TO 1,000 AND EUPPREEEED LT 4,000

			B6 CENEUE	% CHNG	% CHNG
INDUETRY	B1 CENSUE TOTAL	LF EURVEY TOTAL	TOTAL	86-B1	86-LFE
426 ELECTRICAL WORK	59.950	61,000	68.855	5.7	8.9
427 INTERIOR AND FINIEHING WORK	71,570	113,000	97,720	86.5	-13.5
429 OTHER TRADE WORK	189,685 462,250	57.000 495.000	20.095 481.715	-85.6 4.2	-64.7 -2.7
MAJOR GROUP 42 TRADE CONTRACTING INDE	6.245	475,000	4.630	-25.9	
441 PROJECT MANAGEMENT, CONSTRUCTION		7,000	7.585	17.1	8.4
	12.720	10,000	12.790	0.6	27.9
	797.040 57.770	65,000	804.420 58.845	0.9	-10.2
451 AIR TRANSPORT INDUSTRISE	11.210	5,000	18.645	21.7	172.9
458 RAILWAY, TRANSPORT AND REL BERV	115.960	101,000	99,775	-14.0	-1.2 -25.0
454 WATER TRANSPORT INDUSTRIES	27,220	17,000	21,740 16,820	-20.1 22.4	-25.0
455 EERV IND INCIDENTAL TO WATER TRANS	155.285	194.000	176.045	18.4	-9.8
457 PUBLIC PASSENGER TRANSIT SYSTSME INDS	68,785	77.000	75.545	18.4	-1.9 -14.5
458 OTHER TRANSPORTATION INDUSTRIEE	34.010 37.985	42.000 34.000	85.895 54.185	42.6	52.4
458 OTHER TRANSPORTATION INDUSTRIBE	516.965	564.000	572.080	10.7	1.4
	6.835	5,000	8.110	18.7	62.2 -84.4
479 OTHER ETORAGE AND MAREHOUSING INDS	11.075	7.000	5.900 11.490	-46.7 -9.8	64.1
MAJOR GROUP 47 STORAGE AND WAREHOUSING	28.740	16.000	18,055	-23.9	12.8
	567 560	584,000	598,245	9.8	2.4
481 TELECOMMUNICATION BROADCASTING INDS	45.025	54.000 126.000	52,120 116,175	15.8 -13.1	-8.5 -7.8
482 TELECOMMUNICATION CARRIERS INDS 483 OTHER TELECOMMUNICATION INDUSTRIES	133.690	6,000	1,785	-13.2	-76.9
483 OTHER TELECOMMONICATION INDUSTRESS 484 POSTAL AND COURIER SERVICE INDS MAJOR GROUP 48 COMMUNICATION INDUSTRESS 491 ELECTRICAL POWER EYETEME INDS	25.285	119,000	110.485	15.1	-7.2
MAJOR GROUP 48 COMMUNICATION INDUSTRIES	276.295	\$05,000	289.380	4.7	-5.1 -12.2
491 ELECTRICAL POWER EYETEME INDS	97.485 15.015	108.000	94.775	9.8	17.2
492 GAS DIETRIBUTION EYSTEME	9,365	5.000	9.490	1.8	89.8
498 MATER SYSTEMS INDUSTRY	18,785	14,000	17.845	29.9	27.5
MAJOR GROUP 49 OTHER UTILITY INDUSTRIES	185.595	141.000	142.780 482.165	5.3	1.3
DIVISION H: COMMUNICATION AND OTHER UTIL	411,890	16.000	15.895	42.4	-0.7
MAJOR GROUP 50 FARM PRODS, WHOLESALE MAJOR GROUP 51 PET PRODS, WHOLESALE	33.825	31,000	28,185	-16.7	-9.1
521 FOOD. WHOLESALE	59.045	6.000	65,480	165.4	-22.1 12.6
522 BEVERAGES, WHOLESALE	2,545	19.000	18.490	18.6	-29.0
524 TOBACCO PRODUCTE, WHOLESALE			3,280	8.4	
MAJOR GROUP 52 FOOD, BEV, DRUG, TOB, W	75,990	110.000	92.375 13.150	21.6 -17.0	-16.0 -17.8
531 APPAREL, WHOLESALE	15.835	16,000	5.980	112.4	-25.2
MAJOR GROUP ST APPAREL AND DRY GOODS, W	18.650	28,000	20.140	8.0	-12.4
541 ELEC. AND ELECTRO. HHLD APP AND PA	11.930	11,000	9.880	-21.8 62.2	-15.2
		9.000	2.060	-1.7	5.8
542 HOUSEHOLD FURNISHINGS, WHOLESALE MAJOR GROUP 54 HOUSEHOLD GOODS INDS. W	22.860	23.000	21,680	-5.1	-5.7
551 MOTOR VEHICLEE, WHOLESALE	21,490	17,000	14.720	-81.5	-13.4 63.7
551 MOTOR VEHICLEE, WHOLESALE	21,480	28.000 45.000	45.840 62.845	118.9	39.7
MAJOR GROUP 55 MOTOR VEH. PARTE, ACC. W 561 METAL AND METAL PROD. WHOLEEALS	42.925	9.000	18.500	2.4	50.0
		24,000	24.570	-8.6	2.4
		75,000 108,000	61.080 102.725	-11.2	-18.6
MAJOR GROUP 56 HETAL, HDMR, PLUMB W 571 FARM MACH, EQUIP AND SUP, WHOLESALE	107,465	23,000	21.790	-15.9	-5.8
571 FARM MACH, EQUIP AND SUP, WHOLESALE	7,675	17,000	20.360	165.3	19.8
572 CONET FOR AND MIN MACH EQUIP 573 IND MACH EQUIP AND SUPP WHOLESALE	12,770 38,205	36.000 41.000	88.025 48.685	158.6	-8.7 6.5
574 ELEC AND ELECTRO MACH AND SUP	88,205	61.000	52.475	-40.5	-14.0
MA ION GROUP 57 NACH. FOUTP. AND EUPP. W	172.795	179.000	177.190	2.5	-1.0
591 WASTE MATERIALE, WHOLESALE	14.275	18,000	13.940	-2.8 14.9	-22.6 25.7
592 PAPER AND PAPER PRODUCTS, WHOLESALE	13.135	12.000 14.000	11.015	286.5	-21.3
592 PAPER AND THERE PRODUCTS, MICHEGALE 594 AGRICULTURAL SUPPLIES, MIDLEGALE 594 TOYS. AMUSEMENT AND SPORT GOODS 595 PHOT EQUIP AND MUS AND INSTR SU	4.365	7,000	7,310	67.5	4.4
595 PHOT EQUIP AND MUS AND INSTR SU	2,490		3,730 3,125	109.0	
		10.000	7,700	85.7	-23.0
597 INDUSTR AND HOUSEMOLD CHEM, WHOLESALE 598 GENERAL MERCHANGISES, WHOLESALE	6.845	6,000	2.710	-60.4	-54.8
		\$5.000 107.000	29.805	-47.7 -7.7	-14.8 -8.1
MAJOR GROUP 59 OTHER PRODE INDE. W	106.565 592.280	643,000	619.360	4.6	-3.7
DIVIEION I: WHOLEEALE TRADE	\$14.820	\$80,000	874.825	18.9	-1.5
601 FOOD ETGREE	20,650	24.000	22.660	9.7 28.0	-5.6 3.5
603 PRESCRIP, DRUGE AND PAT MEDICINE	61,415 396,890	78,000 477,000	75.525 498,060	24.2	8.4
MAJOR GROUP 60 FOOD, BEV AND DRUG, RET 611 SHOE ETGREE		24,000	25.515	18.7	6.3
		18.000	22.995	-0.9	27.7
613 MOMEN'S CLOTHING STORES	54.550 40.180	64.000 56.000	61.230 43.760	12.2	-21.9
614 CLOTHING STOREE, N.E.C	7.325	17,000	13.030	77.9	-28.4
615 CLUTHING ONE TORES	147.695	181,000	174.420	16.1	-3.6 15.4
621 HOUSEHOLD FURNITURE STORES	28.715	\$2,000 63,000	36.940 46.505	28.6 51.8	-26.2
622 APPLIANCE, TV. RADIO AND ETERED	15.320	30,000	22.455	22.6	-25.1
MAJOR GROUP 62 HSLD FURN AND APPLIAN, R	77.675	125,000	110,100	41.7	-11.9

TABLE 3 COMPARISON OF 1980 EZC COUNTS FOR THE 1981 AND 1986
CENSES AND NAY 1986 IF SURVEY. THE 1981 CHANGE DATA IS SAIGHD ON
THE LFE WINTERES. FOR PRESONS HOW OWNERD SINCE JAM. ATTO FT NE'
PREVIOUS YEAR (1980 OR 1985 AS APPLICABLE). CLANGE RACOR GROUP
TOTAL FOR 1980 CONTROL DATA THAT MAY BUTUETD TO THE REPORTIVE
MAJOR GROUPS. ORN 1981 DATA. THEE THOUTED COUNTS ENGY IN THE
TOTAL FOR ALL INDUSTRIES ONLY

NOTE : LFS FIGURES ROUNDED TO	1,000 AND	SUPPRESSED L	r 4.000		
INDUSTRY	B1 CENSUS TOTAL	LF SURVEY TOTAL	86 CENSUS TOTAL	% CHNG 86-81	% CHNG 86-LFS
631 AUTOMOBILE DEALERS	101.935	117,000	108,055	6.0	-7.6
632 RECREATIONAL VEHICLE DEALERS	4.875 67.840	17.000	12.055 84.500	147.8	-29.1 -10.1
634 AUTO. PARTS AND ACCESSORIES STORE	48.850	59.000	31,135	-36.3	-47.2
635 MOTOR VEHICLE REPAIR SHOPE	96.130	120,000	116.930	21.6	-2.6
639 OTHER MOTOR VEHICLE SERVICES	24.175 848.810	12.000 419.000	11.610 377.925	-52.0	-3.2 -2.8
	329.885	298.000	303.685	-7.9	1.2
AET BOOK AND STATIONERY STORES	17.540	298.000 27.000	20.985	19.6	-22.3
652 FLORISTS, LAWN AND GARDEN CENTRES 653 HDMR. PAINT. GLASS AND WALLPAPER	17.750 85.695	29.000 42.000	24.860 41.095	40.1	-14.3 -2.2
	14.935	25.000	21,630	44.8	-13.5
655 MUSICAL INSTRUMENTS AND REC STOR 656 JEWELLERY STORES AND WATCH, JEW REP	7.885	13,000	10.420	32.1	-17.8
656 JEWELLERY STORES AND WATCH. JEW REP 657 CAMERA AND PHOTO SUPPLY STORES	4,325	31.000 6.000	27.785 7.020	21.0 62.3	-10.4 17.0
ASR TOY, HORRY, NOVELTY AND SOUR STORES	19.270	48.000	31.495	63.4	-26.8
659 OTHER RETAIL STORES	97.065	65.000	58.785	-89.8	-10.2
MAJOR GROUP 65. OTHER RETAIL STORES	287.440	281,000 5,000	255.140 4.955	7.5	-9.2 -0.9
692 DIRECT SELLERS	24.590	66,000	38.755	57.6	-41.8
MAJOR GROUP 69 NON-STORE RETAIL INDS	27.135	71.000	45.205	66.6	-36.3
DIVISION J: RETAIL TRADE MAJOR GROUP 70 DEPOSIT ACCEPT INTERMED	1.560.535 270.280	1,852,000	1.759.585	12.8	-5.0 4.4
MAJOR GROUP 71 CONS AND BUS FIN INTERM	17,215	18.000	15.055	-12.5	-16.4
MAJOR GROUP 72 INVESTMENT INTERHEDIARY	80,155	15,000	28.140	-6.7	87.6
MAJOR GROUP 78 INSURANCE INDUSTRIES	114.985	148.000 35.000	181.245	14.1 27.2	-11.3 -16.8
MAJOR GROUP 74 OTHER FIN INTERMEDIARY DIVISION K: FINANCE AND INSURANCE	455,585	491.000	490.740	7.7	-0.1
	79.985	91,000	82,140	2.7	-9.7
759 OTHER REAL SSTATE OPERATORS	375 80,365	98.000	2.455 88.285	9.9	-5.1
MAJOR GROUP 76 THE AND REAL EST AGENT	119,285	135.000	156.090	80.9	15.6
DIVISION L: REAL ESTATE OPER AND INS AGENT 771 EMPLOYMENT AGENCIES AND PERS SUP	199,645	228.000	244.875	22.4	7.2 -27.3
771 EMPLOTMENT AGENCIES AND PERS SUP	33.040	54.000 58.000	89.240 68.755	37.9 93.0	20.3
77% ACCOUNTING AND BOOKEEPING SERVICES	67,055	87.000	80.350	19.8	-7.6
774 ADVERTISING SERVICES	26.785 121.945	46.000 136.000	35.920 128.230	34.1 5.2	-21.9 -5.7
775 ARCHITECT, SNG AND OTHER SC AND TECH 776 OFFICES OF LAWYERS AND NOTARIES	78,745	91,000	94.273	19.7	3.6
777 MANAGEMENT CONSULTING SERVICES	31,025	26,000	39.615	27.7	52.4
779 OTHER BUSINESS SERVICES	124,590 511,645	126.000 619.000	133.970 637.605	7.5 24.6	6.3 3.0
DIVISION M: BUSINESS SERVICE INDUSTRIES	511,645	619,000	637.610	24.6	3.0
B11 FEDERAL DEFENCE SERVICES		50.000	67.483		35.0
812 OTHER FEDERAL SERVICES	332.025	269,000 319,000	75.835 758.035	7.8	-86.7 12.2
MAJOR GROUP 82 PROV AND TER GOV'T SERV	280,750	316.000	301.855	7.5	-4.5
MAJOR GROUP 83 LOCAL GOV'T SERV INDS	249.355	314.000	282,585	13.3	-10.0
MAJOR GROUP 84 INT AND OTH GOV'T SERV DIVISION N: GOVERNMENT SERVICE INDUSTRIES	2.135 864.265	952.000	1,790	-16.2 9.3	-0.B
851 ELEMENTARY AND SECOND EDUCATION	548,185	582,000	567.020	3.4	-2.6
852 POST-SECONDARY NON-UNIV SDUC	79.545	110,000	92.160 164.925	15.9 7.8	-16.2 2.4
854 LIBRARY SERVICES	16,230	24.000	21.355	31.6	-11.0
854 LIBRARY SERVICES	4,280	14.000	18.030	208.0	-6.9
839 OTHER EDUCATIONAL SERVICES	9.080 810.265	902,000	17.455 898.800	48.2	-0.4
DIVISION O: EDUCATIONAL SERVICE INDUSTRIES	810.265	902.000	898.795	10.9	-0.4
861 HOSPITALS	521.065	537.000 178.000	529.645	1.6	-0.6
862 OTH INSTITUTIONAL HEALTH AND SOC 863 NON-INSTITUTIONAL HEALTH SERVICES	119.255	25.000	177.880 36.395	49.2	45.6
R64 NON-INSTITUTIONAL SOCIAL REPVICES	130.675	170.000	135.850	4.0	-20.1
865 OFFICES OF PHYSICIANS, SURGEONS, DENT 866 OFFICE OF OTHER HEALTH PRACT	111.435	139.000 31.000	132,670 30,525	19.1	-4.6 -1.5
867 OFFICES OF SOCIAL SERVICES PRACTI	2.925	\$1.000	2.615	-10.6	
867 OFFICES OF SOCIAL SERVICES PRACTI 868 MEDICAL AND OTHER HEALTH LAB	19.425	17.000	17,405	-10.4	2.4
869 HEALTH AND SOCIAL SERV ASSOCIA MAJOR GROUP 86 HEALTH AND SOCIAL SERV	19.285 957.275	24.000 1.120.000	16.970	-12.0 16.9	-29.3 -0.1
DIVISION P: HEALTH AND SOCIAL	957.275	1.120.000	1.119.150	16.9	-0.1
911 HOTELS, MOTELS AND TOURIST COURTS	208.265	191.000	207.160	-0.5	8.5
912 LODGING HOUSES AND RESIDENTIAL CL 913 CAMPING GROUNDS AND TRAVEL TRAILERS	7.845	10.000	4.395 8.180	12.4	-18.2
914 RECREATION AND VACATION CAMPS	18,125	16,000	13,400	2.1	-16.2
MAJOR GROUP 31 ACCOMMODATION SERV INDS	233.140	221,000 659,000	244.980 607.780	5.1 20.1	10.9
921 FOOD SERVICES	505.905 29.605	45.000	39.530	20.1	-7.8
MAJOR GROUP 92 FOOD AND REVERAGE SERV	535.510	704.000	679.620	26.9	-3.5
DIVISION Q: ACCOMMODATION, FOOD ETC	768.650 9.200	925.000 14.000	924.600 18.435	20.3	-0.0 31.7
962 MOTION PICTURE EXHIBITION	13.075	12.000	10,460	-20.0	-12.8
	21,360	35.000	28.485	33.4	-18.6
964 COMMERCIAL SPECTATOR SPORTS	6.905	12.000 60.000	12.060 57.940	74.7 28.5	-3.4
966 GAMBLING OPERATIONS	3.240	. 13,000	8.110	150.3	-37.6
969 OTHER AMUSEMENT AND RECREATIONAL MAJOR GROUP 96 AMUSEMENT AND REC SERV	57.980 156.870	72.000 218.000	41.485	-28.5 18.5	-42.5 -14.7
MAJOR GROUP 76 AND SHENT AND REC SERV	130.870	218,000	100.005	18.5	-14.7

TABLE 3 COMPARESON OF 1980 EIC COUNTE FOR THE 1981 AND 1986 CHRODE AND MAY 1986 IS SUPETY THE 1981 CHRODE AND THE 1986 IS SUPETY THE 1981 CHRODE AND THE AND THE 1981 CHRODE AND THE AND THE LESS UNIVERSES, FOR PRESCRICT MAY LIKE TO THE PREVIOUS YEAR (1980 OR 1985 AS APPLICABLE). CHROSE MANUE WORD FOR 1980 CHROME AND THE SUPETY TO THE RESPICTIVE MAJOR GROUPS, DOES 1986 CONTROL DATA THREE THOUTED TO THE RESPICTIVE MAJOR GROUPS, DOES 1981 DATA. THREE IMPUTED TOTAL FOR ALL INSUSTRIES ONLY

NOTE : LFS FIGURES ROUNDED TO 1.000 AND SUPPRESSED LT 4.000

	INDUSTRY	81 CENSUS	LF SURVEY	86 CENSUS	% CHNG	% CHNG
		TOTAL	TOTAL	TOTAL	86-81	86-LFS
971	BARBER AND BEAUTY SHOPS	70.465	99.000	91.775	80.2	-7.8
972	LAUNDRIES AND CLEANERS (EXC SELF)	46.260	54.000	48,270	4.8	-10.6
973	FUNERAL SERVICES	8.955	14,000	10,510	17.4	-24.9
974	PRIVATE HOUSEHOLDS	58.390	271,000	86.203	47.6	-68.2
979	OTHER PERSONAL AND HOUSEHOLD SERV	2.760	36,000	58.700	2026.8	68.1
MAJOR	GROUP 97 PERSONAL AND HELD SERV	186.825	474.000	809.495	65.7	-84.7
981	RELIGIOUS ORGANIZATIONS	64.885	83.000	78.405	14.1	-11.6
982	BUSINESS ASSOCIATIONS	8.780	13.000	11.705	33.3	-10.0
983	PROFESSIONAL MEMBERSHIP ASSOCIATION	6.205	6.000	9,400	51.5	56.7
984	LABOUR ORGANIZATIONS	17.755	10.000	16,335	-8.0	68.8
985	POLITICAL ORGANIZATIONS	1.095		1,585	44.7	
986	CIVIC AND FRATERNAL ASSOCIATIONS		38.000	84.625		-8.9
MAJOR	GROUP 98 MEMBERSHIP ORG INDS	98.170	152,000	157.440	60.4	3.6
221	MACH. AND EQUIP. RENTAL AND LEASING	17.920	25.000	28,970	33.8	-4.1
992	AUTO AND TRUCK RENT AND LEASING	11.005	13,000	13.040	18.5	0.3
993	PHOTOGRAPHERS	9.765	11.000	13.050	33.6	18.6
996	OTHER REPAIR SERVICES	81.610	85.000	31.465	-0.5	-10.1
125	SERVICE TO BUILDINGS AND DWELLING	72.790	122.000	88.385	21.4	-27.6
226	TRAVEL SERVICES	28.255	24.000	28.365	0.4	18.2
***	OTHER SERVICES. N.E.C	85.165	42.000	61.830	-27.4	47.2
MAJOR	GROUP 99 OTHER SERVICE INDUSTRIES	256.525	271.000	271.350	5.8	0.1
DIVISIO	P: OTHER SERVICE INDUSTRIES	698.395	1,116,000	924.165	32.3	-17.2

TABLE 4 TOTAL AND PERCENTAGE CHANGE DF 1981 AND 1986 CENSUS INDUSTRY COUNTS (1976 SIC) FOR ALL PERSONS HHO MORKED SINCE JAMUARY IST DF THE PREVIOUS YEAR (1980 OR 1985), BY SEX FOR CANADA

NDTE : INDUSTRIES 051 AND 052, 295 AND 295, AMD 325 AND 325 ARE COMBINED FOR 1981 AND 1986, 822 AND 828 ARE COMBINED IN CLASS 822 FOR 1986 DAILY.

INDUSTRY	81 CEMSUS	86 CEMSUS TOTAL	χ CHNG	81 CENSUS HALE	86 CENSUS MALE	Z CHNG	81 CENSUS FENALE	86 CENSUS FEMALE	χ CHNG
TDTAL ALL INGUSTRIES				7,595,395	7 750 400	2.2	5,533,870	6,098,175	10.2
FARMS	511,465	529,250	3.5	379,780	375,655	-1.1	131,690	153,590	16.6
MG 3-SERVICES IMCIDENTAL TO AGRICULTURE 01V1-AGRICULTURE	20,885	22,925 552,175	9.8	10,870 390,650	11,055 386,710	1.7	10,015 141,700	11,870 165,465	18.5 16.8
MG1-LOGGING	532,350 85,670	82,785	-3.4	79,475	75,975	-4.4	6,195	6,810	9.9
MG 2-FDRESTRY SERVICES	25,800	37,245	44.4	18,195	27,440	50.8	7,605	9,800	28.9
	111,475 38,060	120,025 45,385	7.7 19.2	97,670 34,635	103,410 39,170	5.9 13.1	13,800 3,425	16,610 6,225	20.4
NG 2-FISHERY SERVICES	4,555	4.670	2.5	3,420	3.215	-6.0	1,140	1,460	28.1
NG 3-HUNTING & TRAPPING	1,790	1,475 51,540	-17.6 16.1	1,500 39,555	1,205 43,585	-19.7	285 4,845	270 7,955	-5.3 64.2
1051 & 1052 GDLD MIMES	8,075	11,515	42.6	7.445	10,555	41.8	630	965	53.2
1057 URANIUM MINES	7,800	4,995 7,985	-36.0 -44.2	6,930 12.865	4,565 7,340	-34.1 -42.9	870 1.440	430 650	-50.6
1058 IRON NINES	14,310 52,725	27,355	-48.1	47,685	25,275	-47.0	5,040	2,080	-58.7
	82,915	51,860	-37.5 8.9	74,925	47,735 12,700	-36.3 9.4	7,985 1,120	4,125 1,165	-48.3 4.0
1061 CDAL MINES	12,730 51,920	13,865 60,470	16.5	11,610 37,560	43,295	15.3	14,365	17.170	19.5
1064 CRUGE PETROLEUM & MATURAL GAS IND MG 2-MINERAL FUELS	64,650	74,335	15.0	49,170	56,000	13.9	15,485	18,330	18.4
1071 ASSESTDS MINES	8,400 2,320	4,100 2,230	-51.2 -3.9	7,790 2,045	3,825 1,960	-50.9 -4.2	280	275	-53.7 -1.8
1072 PEAT EXTRACTION	790	900	13.9	755	830	9.9	35	70	100.0
HG 3-NOM-METAL MINES(EXC.COAL MINES)	8,725 20,230	8,620 15,855	-1.2 -21.6	7,820 18,410	7,820 14,430	-21.6	905 1,825	800 1,425	-11.6 -21.9
TORS STONE CHAPPIES	3,470	4,360	25.6	3,205	3.935	22.8	260	430	65.4
1087 SAMO PITS OR QUARRIES	6,240	7,225	15.8	5,565	6,430	15.5	675 935	790	17.0
MG 4-QUARRIES & SAND PITS	9,705 16,205	11,585 17,760	19.4	8,775 14,315	10,365 16,070	18.1 12.3		1,225 1,690	-10.8
1098 OTHER CONTRACT DRILLING	3,305	2,980	-9.8	2,955	2,750	-6.9	345	230	-33.3
1099 MISC SERVICES INCIDENTAL TO MINING MG 5-SERVICES INC. TD MINING	24,930 44,440	23,965 44,700	-3.9 0.6	20,790 38,065	20,035 38,860	-3.6 2.1	6,380	3,925 5,845	-5.2 -8.4
OIV 4-MINES(INC.MIL.)QUAR.&OIL WELLS	221,945	198,335	-10.6	189,345	167.385	-11.6	32,605	30.945	-5.1
1101 MEAT & POULTRY PRODUCT INDUSTRIES	52,425 71,240	51,595 67,570	-1.6 -5.2	37,045 37,850	36,270 34,425	-2.1 -9.0	15,375 33,390	15,325 33,145	-0.3 -0.7
IIO3 FRUIT & VEGETABLE PROCESSING IND	25,145	22,605	-10.1	12,950	11,990	-7.4	12,195	10.615	-13.0
I104 DAIRY PRODUCTS IMDUSTRY	29.705	29.845	0.5	23,600	22,920	-2.9	6,110	6,925	13.3
I105 FLOUR & BREAK. CEREAL PROO. IND I106 FEED IMDUSTRY	6,930 12,590	6,430 12,845	-7.2 2.0	5,360 10,305	4,910	-8.4 -2.4	1,570 2,285	1,525 2,795	-2.9 22.3
1107 BAKERY PRODUCTS INDUSTRIES	51,815	53,365	3.0	29,905	29,955	0.2	21,910	23,405	6.8
1108 MISCELLANEOUS FOOD INDUSTRIES	47,305 40,885	46,855 38,975	-1.0 -4.7	28,060 34,070	28,190 32,450	0.5 -4.8	19,245 6,815	18,665 6,520	-3.0 -4.3
MG1-FOOD & BEV. IMDUSTRIES	338,035	330,090	-2.4	219,145	211.175	-3.6	118,895	118,915	0.0
I151 LEAF TDBACCD PROCESSORS	7,790	1,165 6,810	19.5 -12.6	605 4,950	685 4,210	13.2 -14.9		480 2,600	31.5 -8.3
MC 2-TREACCO PRODUCTS TWD	8,760	7,975	-9.0	5,555	4,895	-11.9	3,205	3,080	-3.9
1162 RUBBER PRODUCTS IMDUSTRIES	30,650	27,555	-10.1	24,565	22,235	-9.5 25.9	6,085 16,230	5,320 19,695	-12.6 21.3
1165 PLASTICS FABRICATING IND. M.E.S MG 3-RUBBER & PLASTICS PRODUCTS IND	42,845 73,495	53,205 80,755	24.2	26,615 51,175	33,510 55,745	8.9	22,320	25,015	12.1
I172 LEATHER TANNERIES	3,440	2,695	-21.7	2,500	1,770	-29.2	930	920	-1.1 -7.9
1174 SHOE FACTORIES	21,690	20,245 1,095	-6.7 -22.6	7,500 500	7,170	-4.4 -22.0	14,190	13,075	-7.9 -23.5
1179 LUGGUAGE HBAGASM LEATHER GOODS MANUF	8,325	5,565	-33.2		2,220	-30.6	5,125	3,345	-34.7
MG 4-LEATHER IMOUSTRIES	34,870	29,600 7,690	-15.1 -30.2	13,705	11,560 4,810	-15.7 -30.5	21,160 4,100	18,045 2,880	-14.7 -29.8
1182 WOOL YARN & CLDTH MILLS	6,465	4.380	-32.3	3,495	2,580	-26.2	2,965	1.795	-39.5
1183 MAN-MADE FIBRE YARM & CLDTH MILLS	18,945	12,845	-32.2		9,105	-30.9		3,740	-35.1
I184 COROAGE & TWINE INDUSTRIES I185 FELT & FIBRE PROCESSING MILLS	895 1,640	765 1,395	-14.5 -14.9	515 1.110	1.010	-7.8 -9.0		285 385	-25.0 -27.4
I186 CARPET MAT & DRUG IMDUSTRY	8,150	6,885	-15.5	5,300	4,300	-18.9		2,590	-9.1
1187 CANVAS PROD & COTTON & JUTE BAGS IND 1188 AUTO FABRIC ACCS. IMDUSTRY	4,415 5,785	4,465 7,915	1.1 36.8	2,035	2,235 3,450	9.8 54.7	2,380 3,555	2,230 4,470	-6.3 25.7
1189 MISCELLAMEDUS TEXTILE IMDUSTRIES	29,820	28,330	-5.0	12,910	12,945	0.3	16,910	15,385	-9.0
NG 5-TEXTILE INDUSTRIES	87,135 6,940	74,670 5,770	-14.3 -16.9	47,700 1,965	40,910 1,645	-14.2 -16.3	39,435	33,760 4,130	-14.4 -16.9
1239 KNITTING NILLS (EXCEPT HOSIERY NILLS).	16,970	12,515	-26.3	5,880	4,245	-27.8	11,090	8,275	-25.4
MG 6-KHITTING HILLS	23,910	18,285	-23.5	7,850	5,885 9,380	-25.0 -27.3		12,400 30,845	-22.8 -26.1
1243 MEN'S CLOTHING INDUSTRIES	54,615 55,745	40,225 51,740	-26.3 -7.2	10.305	9.830	-4.6	45.440	41.905	-7.8
	8,875	8,660	-2.4	1,630	1,580	-3.1 2.5		7,080	-2.3 24.3
1246 FUR GODOS INDUSTRY	4,310 3,750	4,810 2,710	11.6	2,565 755	2,630	-38.4	2.990	2,175 2,240	-25.1
1249 MISCELLANEOUS CLDTHING INDUSTRIES	11,860	26,695	125.1	2,665	5,855	119.7	9,195	20,840	126.6
MG 7-CLDTHING IMDUSTRIES	139,155 95,365	134,840 81,585	-3.1 -14.4	30,815 87,715	29,750 74,865	-3.5 -14.6		105,085 6,715	-3.0 -12.2
1252 VENEER & PLYWODD MILLS	13,730	10,690	-22.1	11,245	8,475	-24.6	2,485	2,215	-10.9
1254 SASH DOOR & DTHER HILLWORK PLANTS	34,005 5,020	34,625 4,140	1.8	28,335	29,440 3,490	3.9 -17.3	5,670	5,185 655	-8.6 -18.6
1256 HOODEN BDX FACTORIES	1,010	1,170	15.8	730	1,005	37.7		165	-40.0
1259 NISCELLAMEOUS WOOD INDUSTRIES	11,375	12,485	9.8	9,330	10,615	13.8	2,040	1,865	-8.6
MG 8-WDDD INDUSTRIES 1261 HOUSEHDLD FURNITURE NANUFACTURERS	160,505	144,700 50,945	-9.8 2.9		127,900 38,750	-9.7 4.1		16,800 12,195	-11.2
1264 OFFICE FURNITURE MANUFACTURERS	7,910	10,340	30.7	6,315	8,100	28.3	1,595	2,240	40.4
1266 HISC.FURNITURE & FIXTURE MANUF 1268 ELECTRIC LAMP & SHADE MANUFACTURERS	14,015	15,855	13.1		11,800	14.2 36.8		4,060 1,230	10.3 7.9
1268 ELECTRIC LAMP & SHADE MANUFACTURERS MG 9-FURNITURE & FIXTURE IMD	2,090 73,515	2,530 79,670	21.1	54,840	1,300 59,945	9.3	18.680	19,725	5.6
1271 PULP & PAPER HILLS	104,300	94,445	-9.4	95,210	86,190	-9.5	9,095	8,255	-9.2

TABLE 4 TOTAL AMO PERCENTAGE CHANGE DF 1981 AMD 1986 CEMSUS INDUSTRY COUNTS (1970 SIC) FOR ALL PERSONS WHO MORKED SINCE JANUARY 1ST DF THE PREVIDUS YEAR (1980 DR 1985), BY SEX FOR CAMADA

NDTE : INDUSTRIES 051 AND 052, 295 AMD 295, AMD 323 AMD 325 ARE COMBINEO FDR 1981 AMD 1986, 822 AMO 828 ARE COMBINED IN CLASS 822 FOR 1986 ONLY

INDUSTRY	81 CEMSUS	86 CEMSUS	Z CHNG	81 CENSUS	86 CENSUS MALE	χ 81 CHNG	CEMSUS	86 CENSUS FEMALE	Ž CHNG
1272 ASPHALT ROOFING MANUFACTURERS	1,800	1,170	-35.0	1,595	1,060	-33.5	210	105	-50.0
1273 PAPER BDX & BAG MANUFACTURERS	28,505	25.015	-12.2	20,610	18,220	-11.6 -8.1	7,895 7,185	6,795	-13.9 -12.2
1274 MISCELLAMEDUS PAPER CONVERTERS MG10-PAPER & ALLIED IMD	19,585 154,190	17,705 138,335	-9.6 -10.3	12,400 129,815	11,400 116,875	-10.0	24,375	6,305 21,460	-12.0
1286 COMMERCIAL PRINTING	71.710	78,960	10.1	45,470	49,915	9.8	26,235	29,045	10.7
1286 COMMERCIAL PRINTING	10,930	16,255	48.7	6,080	8,735	43.7	4,850 9.860	7,520 12,945	55.1 31.3
1288 PUBLISHING ONLY	16,390 48,130	21,820 45,685	33.1 -5.1	6,535 26,045	8,870 24,375	35.7	22,095	21.305	-3.6
MG11-PRINTING PUB.SALLIED IND	147,165	162,720	10.6	84,125	91,895	9.2	63,040	70,820	12.3
I291 IROM & STEEL MILLS	73,710	58,805	-20.2	68,275	54,270	-20.5 4.9	5,435 625	4,535 825	-16.6 32.0
1292 STEEL PIPE & TUBE MILLS	7,505	8,055 10,035	7.3	6,885 9,600	7,225 9,300	-3.1	860	735	-14.5
1295 & 1296	42.040	40,675	-3.2	37.620	36,385	-3.3	4,420	4,285	-3.1
1297 COPPER & COPPER ALLOY ROLLCAST & EXT	3,585	3,130	-12.7	3,215	2,770	-13.8 1.4	370 1.265	360 1,140	-2.7 -9.9
1298 METAL ROLLINGCAST & EXTRUDING N.E.C MG12-PRIMARY METAL IND	6,850 144,145	6,805 127,495	-0.7 -11.6	5,580 131,175	5,660 115,615	-11.9	12,970	11,885	-8.4
I301 BOILER & PLATE WORKS	9,860	9,185	-6.8	8,975	8,205	-8.6	880	985	11.9
1302 FABRICATED STRUCTURAL METAL INDUSTRY	21,660	14,130	-34.8 -13.4	19,895 16,765	12,905 14,670	-35.1 -12.5	1,770 3,810	1,225 3,155	-30.8 -17.2
1303 ORMAMENTAL & ARCHITECTURAL METAL IND 1304 METAL STANPING PRESSING&COATING IND	20,580 38.855	17,825 33,905	-12.7	31,295	27,620	-11.7	7,560	6,285	-16.9
1305 WIRE & WIRE PRODUCT MAMUFACTURERS	18,160	16,165	-11.0	14.400	12,485	-13.3 -3.0	3,750 6,395	3,675	-2.0 -0.5
1306 MARDHARE TOOL & CUTLERY MANUF 1307 HEATING EQUIPMENT MANUFACTURERS	27,730 6,520	27,060 6,225	-2.4 -4.5	21,335 5,260	20,695 4,855	-3.0 -7.7	1,255	6,360 1,375	9.6
1307 HEATING EQUIPMENT MANUFACTURERS	27.175	28,350	4.3	24,050	24,770	3.0	3,125	3,580	14.6
TROO MISCELLANFOUS METAL FARRICATING IND	29,090	22,710	-21.9	23.570	18,195	-22.8	5,520	4,520	-18.1 -8.5
MG13-METAL FAB.IND.(EX.MAC.TRA.EQ.IMD.)	199,625	175,560 11,250	-12.1 -43.7	165,550	144,395 9,990	-12.8 -44.5	34,075 1,965	31,165 1,255	-36.1
1311 AGRICULTURAL IMPLEMENT INDUSTRY 1315 MISCELLAMEOUS MACH. & EQUIPMENT MANUF.	79.830	69,385	-13.1	67,050	57,515	-14.2	12,780	11,870	-7.1
1316 COM.REFRIGERATION & AIR COND MANUF	5,150	5,640	9.5	4,230	4,620	9.2	920	1,015 9,650	10.3
I318 OFFICE & STDRE MACHINERY MANUF MG14-MACHINERY IND.(EX.ELECT.MACH.)	21,790 126,735	27,570 113,845	26.5 -10.2	14,670 103,960	17,925 90,055	22.2 -13.4	7,115 22,780	23.790	4.4
1321 AIRCRAFT & AIRCRAFT PARTS MANUF	40,605	36,890	-9.1	34,580	30,835	-10.8	6,020	6.050	0.5
1323 4 1325	19,100	142,655	646.9	16,185	114,680	608.6 -85.2	2,910 19,275	27,975 2,165	861.3
1324 TRUCK BODY & TRAILER MANUFACTURERS 1326 RAILROAD ROLLING STOCK INDUSTRY	114,045 13,630	16,185 9,120	-85.8 -33.1	94,775 12,770	14,020 8,115	-85.2	860	1,010	17.4
1327 SHIPBUILDING & REPAIR	17,805	15,270	-14.2	16,950	14,200	-16.2	850	1,070	25.9
1328 BOATBUILDING & REPAIR	8,135	7,385	-9.2 -19.3	7,025 2,845	6,565	-6.5 -21.1	1,115 410	825 380	-26.0 -7.3
1329 NISCELLANEOUS VEHICLE MANUFACTURERS MG15-TRANSPORTATION EQUIP.IND	3,260 216,575	2,630 230,135	6.3	185,135	190,660	3.0	31.440	39,480	25.6
1331 MANUF.OF SMALL ELECTRICAL APPLIANCES 1332 MANUF.OF HAJOR APPL	8,910	5,000	-43.9	5.135	2,860		3,775	2,145	-43.2 4.1
1332 MANUF.OF MAJOR APPL	11,715 5,385	11,280 4,760	-3.7 -11.6	9,145 3,180	8,605 2,910	-5.9 -8.5	2,570 2,200	2,675	-15.9
1333 MANUFACTURERS OF LIGHTING FIXTURES	4,550	4,065	-10.7	2,390	1.940	-18.8	2.160	2,125	-1.6
1335 COMMUNICATIONS EQUIP. MANUFACTURERS	54,035	63,485	17.5	31,695	38,310	20.9	22,340 8,075	25,175 5,975	12.7
1336 MANUF.OF ELECTRICAL INDUSTRIAL EQUIP 1338 MANUF.DF ELECTRIC WIRE & CABLE	28,790	22,130 10,780	-23.1 16.8	20,720 7,500	16,155 8,175	9.0	1,735	2,610	50.4
1339 MANUF OF MISC FLECTRICAL PROD	17,845	16,420	-8.0	10,030	9,160	-8.7	7,820	7,260	-7.2 -1.7
MG16-ELECTRICAL PRODUCTS IND	140.465	137,925	-1.8 -31.6	89,795 4,970	88,120 3,410	-1.9 -31.4	50,670 2,335	49,805 1,590	-31.9
1351 CLAY PRODUCTS NAMUFACTURERS	7,305	4,995 5,515	-6.5	5,425	4,960	-8.6	470	560	19.1
1353 STONE PRODUCTS MANUFACTURERS	2,105	1,545	-26.6	1,770	1,290	-27.1	335 1,230	255 975	-23.9 -20.7
1354 CONCRETE PRODUCTS NANUFACTURERS 1355 READY-NIX CONCRETE NANUFACTURERS	12,870	10,110 11.895	-21.4 0.6	11,645 10,625	9,135 10,735	-21.6	1,250	1.165	-2.1
1356 GLASS & GLASS PROO.MANUFACTURERS	16,605	15,460	-6.9	12,345	11,775	-4.6	4,260	3,690	-13.4
1357 ARRASIVES MANUFACTURERS	3,050	2,085	-31.6	2,520	1,650 780	-34.5 -42.2	525 45	430 65	-18.1 44.4
1358 LIME MANUFACTURERS	1,395	845 10,320	-39.4 -14.7	1,350	8.965	-13.6	1,715	1.355	-21.0
MG17-MON-METALLIC MINERAL PROD.IND	73,135	62,770	-14.2	61,035	52,695	-13.7	12,100	10.075	-16.7
TRAS DETROLFIN PEFTMERIES	26,380	24,940	-5.5 -29.1	21,715	19,335	-11.0 -27.7	4,660	5,605 125	20.3 -39.0
I369 MISC. PETROLEUM & CDAL PRODUCTS IND MG18-PETROLEUM&COAL PROO.INO	1,650 28.030	1,170 26,110	-6.8	1,445 23,165	20,380	-12.0	4,870		17.7
	2,790	3,145	12.7	2.365	2,685	13.5	425	460	8.2
1373 MANUF OF PLASTICS & SYNTHETIC RESINS	7,350	8,015	9.0	6,080 9,240	6,365 8,605	4.7 -6.9	1,265 8,205		9.6
1374 NAMUF OF PHARMACEUTICALS & MEDICINES 1375 PAINT & VARNISH MANUFACTURERS	17,440 8,660	17,600 8,405	-2.9	6.685	6,555	-1.9	1,970	1,850	-6.1
1376 MARLIE OF SOAP & CLEANING COMPOUNOS	6,680	8,325	24.6	4,520	5.505	21.8	2,165	2,825	30.5
1377 MANUF OF TOILET PREPARATIONS	8,855 34,675	10,500 28,970	18.6 -16.5	3,455 28,830	3,895 24,215	12.7	5,400 5,850	4,755	-18.7
1378 MANUF OF INDUSTRIAL CHEMICALS	19.250	21,620	12.3	13,980	15,980	14.3	5,275	5.635	6.8
MG19-CHEMICAL & CHEM.PROD.IND	105,700	106,585	0.8	75,150	73,810	-1.8 14.3	30,555 12,980	32,770 13,675	7.2
1391 SCIENTIFIC & PROFESSIONAL EQUIP.INO 1392 JEWELLERY & SILVERWARE INDUSTRY	30,200 9,045	33,360 9,420	10.5	17,225 4,780	19,685	-4.8	4,265	4,870	14.2
1393 SPORTING GDODS & TDY INDUSTRIES	15.835	15.000	-5.3	7,830	7,825	-0.1	8,005	7,175	-10.4
TN97 SIGHS & DISPLAYS INDUSTRY	8,395	10.570	25.9	6,155	7,775 18,975	26.3 19.8	2,245	2,800 14,025	24.7
1399 NISC MANUFACTURING INDUSTRIES N.E.S NG 20-NISCELLAMEOUS MANUF.IMD	27,250 90,730	32,995 101,355	21.1	51,825	58.815	13.5	38,910	42,540	9.3
DIV 5-MANUFACTURING INDUSTRIES	2,365,865	2.283.415	-3.5	1,673,080	1,591,085	-4.9	692,790	692,330	-0.1 3.5
TANA BUTTINING CONSTRUCTION	196,145	200,310	2.1	174,870	178,285 50,210	2.0 -24.2	6,455	22,025	-11.6
1406 HIGHWAYBRIDGE & STREET CONSTRUCTION	72,730 63,790	55,910 46,510	-23.1 -27.1	66,275 58,115		-24.2	5.679	4,610	-18.8
1409 OTHER CONSTRUCTION	332.670	302,730	-9.0	299,260	270,395	-9.6	33,409	32,335	-3.2
1421 SPECIAL-TRADE CONTRACTORS	472,360	474,655	0.5	423,760	422,380	-0.3 -0.3	48,599 48,599		7.6 7.6
NG 2-SPECIAL-TRACE CONTRACTORS	472,360 805,025	474,655 777,385	-3.4		422,380 692,780	-0.3 -4.2	82.00	84,610	3.2
DIV 6-CONSTRUCTION INDUSTRY	54,860	57,460	4.7	37,115	37,595	1.3	17.75	19.865	11.9
1502 SERV. INCID. TO AIR TRANSPORT	10,835	14,735	36.0	9,085	11,795	29.8	1,75	2,940	68.0
I503 RAILWAY TRAMSPORT	116,385	99,950	-14.1	107,140	70,520	-15.5	,,25	. ,,,,,,	/

TABLE 4 TOTAL AND PERCENTAGE CHANGE OF 1981 AND 1986 CENSUS INOUSTRY COUNTS (1976 SIC) FOR ALL PERSONS INTO MORKED SINCE JAMUARY 1ST OF THE PREVIOUS YEAR (1980 OR 1985), BY SEX FOR CAMADA

NDTE : IMOUSTRIES 051 AND 052, 295 ANO 295, ANO 323 ANO 325 ARE CONSINED FOR 1981 AND 1986, 822 ANO 828 ARE COMBINED IN CLASS 822 FOR 1986 ONLY

INQUSTRY	81 CENSUS	86 CENSUS	ż	81 CENSUS	86 CENSUS	χ ε	1 CEMSUS	86 CENSUS	x
	TOTAL	TOTAL	CHNG	MALE	HALE	CHNG	FEMALE	FEMALE	CHNG
ISOS SERV. INCIO. TO WATER TRANSPORT	27,240 13,820	21,665 16,915	-20.5 22.4	23,210 12,035	18,070 14,550	-22.1 20.9	4,035 1,785	3,595 2,360	-10.9 32.2
TERE MOV STR. HISER CORRS HINCRATER	13,505	15,465	14.5	10,975	12,465	13.6	2,530	3,000	18.6
ISO7 OTHER TRUCK TRANSPORT	152,310	161,495	6.0 -25.8	134,040	140,680 5,305	5.0 -24.9	18,270	20,805 1,415	13.9 -28.4
ISOS SUS TRANSPORT INTERURSAM & RURAL ISOS URSAM TRANSIT SYSTEMS	9,050 35,200	6,715 39,920	13.4	7,065 32,045	35,045	9.4	3,155	4,885	54.8
IS12 TAXICAS OPERATIONS	32.040	33,425	4.3	27,225	28,810	5.8	4,820	4,610	-4.4
IS15 PIPELIME TRANSPORT	6,870 33,220	8,010	16.6	5,520 31,450	6,090 42,400	10.3 34.8	1,355	1,920 3,310	41.7 87.0
	32,570	45,710 43,190	32.6	13,955	17,430	24.9	18,615	25,760	36.4
I519 OTHER TRANSPORTATION	30,270	38,770	28.1	18,450	22,925	24.3	11,825 98,880	15,840 119,740	34.0 21.1
	568,195 11,085	603,425 5,910	6.2	469,310 9,650	483,680 5,375	3.1 -44.3	1.435	535	-62.7
1524 GRAIN ELEVATORS	12,690	11,510	-9.3	9,630	8,695	-9.7	3,055	2,815	-7.9
MG 2-STORAGE	23.775	17,420	-26.7 15.9	19,285 31,130	14,070 34,650	-27.0 11.3	4,490 15,850	3,350 19,785	-25.4 24.8
1543 RADIO & TV BROADCASTING	46,980 124,190	54,430 112,280	-9.6	61.870	58,940	-4.7	62.325	53,335	-14.4
IS45 TELEGRAPH & CABLE SYSTEMS	7,905	3,570	-54.8	5,830	2,660	-54.4	2,075	915	-55.9
I548 POST OFFICE	84,815 263,885	82,615 252,895	-2.6	51,465 150,290	48,895 145,145	-5.0 -3.4	33,345 113,595	33,710 107,750	1.1 -5.1
IS72 FLECTRIC POWER	97,750	95.250	-2.6	79,700	76,395	-4.1	18.050	18,855	4.5
NG 3-CONNUNICATION	15.020	16,435	9.4	11,040	11,585	4.9	3,980	4,850 1,015	21.9 18.0
	9,490 13,920	9,690 18,055	2.1	8,635 12,700	8,675 16,165	27.3	1,220	1,895	55.3
IS79 OTHER UTILITIES	136.180	139,430	2.4	112,075	112,815	0.7	24,105	26,615	10.4
OIV 7-TRANSP.COMMUN.&OTHER UTIL	992,040	1,013,165	2.1 43.5	750,965	755,710 9,425	0.6 42.8	241,075 3,630	257,460 5,250	6.8 44.6
1602 WHOLESALERS OF FARM PRODUCTS	10,225	14,675	23.5	505	595	17.8	75	120	60.0
TARK MEALERS OF RETROLEIM PRODUCTS	34.040	27,340	-19.7	24,915	19,960	-19.9	9,125	7,380	-19.1 39.8
IG11 WSALERS OF PAPER & PAPER PRODUCT IG12 WSALERS OF GENERAL MERCHANOISE	11,980	15,090 2,420	26.0 -59.7	7,485 3,810	8,820 1,390	17.8 -63.5	4,490 2,205	6,275	39.8 -53.5
1614 WHOLESALERS OF FOOD	6,010	69,735	4.3	46,065	48,135	4.5	20,780	21,600	3.9
T615 WHOLESALERS OF TORACCO PRODUCTS	3,035	3,280	8.1	2,255	2,575	14.2	780	700	-10.3 14.2
I616 WSALERS OF DRUGS & TOILET PREP I617 WSALERS OF APPAREL & DRY GOODS	11,380 20,405	13,500	18.6	5,810 10,135	7,140 9,565	22.9 -5.6	5,565 10,270	6,355 9,620	-6.3
1618 WSALERS OF HHLD FURN & FURNISH	10.845	11,110	2.4	6,995	6,895	-1.4	3,855	4,215	9.3
1619 WSALERS OF MOTOR VEHICLES & ACCESS	45,945	61,235	33.3	35,605	46,630	31.0	10,340	14,605	41.2
1621 WSALERS OF ELECT.MACH.EQ.ASUPPLIES 1622 WSALERS OF FARM MACH.A EQUIPMENT	41,760 25,950	53,065 21,800	27.1	28,205 21,185	36,190 17,865	28.3 -15.7	13,555 4,760	16,880 3,935	-17.3
162% WSALERS OF MACH & EQUIP N.E.S	105,440	105,325	-0.1	76,815	75,800	-1.3	28.620	29,530	3.2
1624 WSALERS OF HROWRE PLUN HEAT EQUIP	25,290	24,370	-3.6	17,935	17,325	-3.4 3.3	7,350 2,890	7,045 2,900	-4.1 0.3
1625 WSALERS OF METAL AND METAL PROD N.E.S. 1626 WSALERS OF LUMBER & BLDG MATERIALS	13,150 69,040	13,505 61,395	-11.1	10,260 53,260	47,310	-11.2	15,780	14,085	-10.7
1627 WSALERS OF SCRAP & WASTE MATERIALS	14,380	13.970	-2.9	12,365	11,625	-6.0	2,015	2,345	16.4
I629 WHOLESALERS N.E.S	78,420	66,690	-15.0 0.6	48,165	41,695 419,545	-13.4	30,255 176,350	24,995 178,865	-17.4 1.4
MG1-WHOLESALE TRACE	594,725 301,585	598,410 353,255	17.1	418,380 146,375	166,510	13.8	155,210	186,745	20.3
I631 F000 STORES	331,945	293,155	-11.7	92,385	79,695	-13.7	239.560	213,460	-10.9
1652 TIRE BATTERY & ACCESSORIES STORES 1654 GASOLIME SERVICE STATIONS	44,555 95,055	32,770 94,750	-26.5 -0.3	30,420 70,935	23,675 69,585	-22.2	14,130 24,120	9,090 25,170	-35.7
1654 GASOLINE SERVICE STATIONS	102,160	108.320	6.0	84,115	88,630	5.4	18,050	19,690	9.1
1658 NOTOR VEHICLE REPAIR SHOPS	102,985	116,300	12.9	91,750	102,210	11.4	11,235	14,090 15,205	25.4 18.0
1663 SHOE STORES	22,475 23,230	25,580 23,020	13.8	9,585 12,535	10,370	-1.6	10,700	10,685	-0.1
1667 WONEN'S CLOTHING STORES	55,130	64.405	16.8	5,450	6,120	12.3	49,685	58,285	17.3
1669 CLOTHING AND DRY GOODS STORES N.E.S	44,620 34,080	53,905 40,600	20.8	8,945	9,375	4.8 17.9	35,675 13,515	44,530 16,355	24.8
1673 HAROMARE STORES	73,115	90,095	23.2		54,125	22.1	28.795	35.970	24.9
1678 RADIO TV & ELECT.APPL.REPAIR SHOPS	11,405	15,230	33.5	9,455	12,295	30.0	1,945	2,935 55,340	50.9 22.9
IGS1 DRUG STORES	62,010 18,025	76,010 21,680	22.6	16,965 5,795	20,670 6,140	6.0	12,235	15,540	27.0
1692 FLORISTS' SHOPS	16,955	20,060	18.3	4,155	4,650	11.9	12,795	15,410	20.4
1691 BOOK & STATIONERY STORES. 1692 FLORISTS' SHOPS. 1694 JEWELLERY STORES. 1695 MATCH & JEWELLERY REPAIR SHOPS.	24,215	25,075	3.6	7,060	7,380	4.5 21.7	17,160	17,695	3.1 69.5
1695 MATCH & JEWELLERY REPAIR SHOPS	2,135 20,715	2,905 22,765	36.1 9.9		15,695	-0.5	4.940	7,065	43.0
		5,140	-11.8	1,750	1,560	-10.9	4,075	3,575	-12.3
1699 RETAIL STORES N.E.S	154,905	179,355	15.8		86,785	20.3	82,750 795,140	92,575 860,505	11.9
		2,262,780		1,170,385	1,223,405	4.5	971,490	1,039,375	7.0
1701 BANK & OTH. GEPOSIT ACCEPTING ESTAB	273,840	279,355	2.0		66,605	2.2	208,680	212,745 8,410	1.9 -27.1
1703 OTHER CREDIT AGENCIES	21,065 23,385	14,935 28.770	-29.1 23.0		6,525 16,515	-31.5 25.8	11,535 10,255	12,255	19.5
1705 SECURITY BROKERS/DEALERS (INC.EAC)	23,090	25,035	8.4	11,520	12,495	8.5	11,570	12,540	8.4
MG1-FINANCE INOUSTRIES	341,380	348,090	2.0	99,335	102,140	2.8 14.6	242,045 65,035	245,955 69,825	1.6
1721 INSURANCE CARRIERS	108,080	119,160 119,160	10.3		49,340	14.6	65,040	69,820	7.3
1735 INSURANCE & REAL ESTATE AGENCIES	124,485	154,445	24.1	59,650	74,555	25.0	64,840	79,895	23.2
1737 REAL ESTATE OPERATORS	93,925 218,410	87,235 241,680	-7.1 10.7	51,730 111,375	48,175 122,725	-6.9 10.2	42,200 107,035	39,055 118,950	-7.5 11.1
NG 3-INSURANCE AGENCIESAREAL EST.INO OIV 9-FINANCE INSURANCE & REAL ESTATE	667,880	708,935	6.1		274,205	8.1	414,120	434,730	5.0
TABLE VINDEDCAPTERS & WIRSERY SCHOOLS	9.130	7,515	-17.7	440	220	-50.0	8,685	7,290	-16.1 4.3
1802 ELEMENTARY & SECONDARY SCHOOLS 1803 SCHODLS OF ART & OF THE PERFORM ARTS	562,340 13,050	575,180 11,005	-15.7		2.585	-0.9 -21.3	348,030 9,765	362,880 8,420	-13.8
TANG VOC CENTERS TRACE SCHOOL & BUS CO	10,625	9,210	-13.3	4,845	3,705	-23.5	5.780	5.510	-4.7
IADS POST-SECONDARY NON-UNIV EDUC INST	56 . 265	72,405	28.7	26,235	36,100	27.9 8.6	28,025 73,295	36,305 78,365	29.5 6.9
1806 UNIVERSITIES & COLLEGES	153,175 30,290	165,130 36,915	7.8	79,880	9,990	25.9	22,355	26,920	20.4
	,-,-	,							

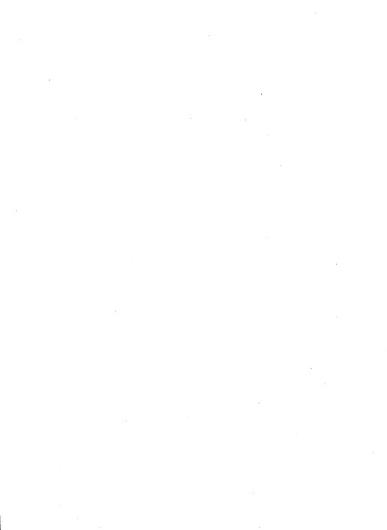
TABLE 4 TOTAL AND PERCENTAGE CHANGE DF 1981 AND 1986 CENSUS INDUSTRY COUNTS (1970 SIC) FOR ALL PERSONS WHO WIRKED SINCE JAMABARY 1ST DF THE PREVIOUS YEAR (1980 DR 1985), 8Y SEX FOR CAMADA

NDTE : INGUSTRIES 051 AND 052, 295 AND 295, AND 323 AND 325 ARE COMBINED FOR 1981 AND 1986, 822 AND 828 ARE COMBINED IN CLASS 822 FDR 1986 ONLY

INOUSTRY	81 CENSUS TDTAL	86 CENSUS TOTAL	Z CHNG	81 CENSUS MALE	86 CENSUS NALE	χ ε CHNG	1 CENSUS FENALE	86 CENSUS FENALE	χ CHNG
TAGS EDUCATION & RELATED SERVICES N.E.S	4.100	6.850	67.1	1,485	2,140	44.1	2,615	4,715	80.3
MG1-EDUCATION & REL.SERVICES	838,965	884.215	5.4	340,420	353,805	3.9	498,550	530,410	6.4
IB21 NOSPITALS	515,180	527,660	2.4	105,395	105,495	0.1	409.785	422,170	3.0
I822 & I828 (1986 ONLY)	71,270	319,055	347.7	7,370	56,480	666.4	63.895	262,570	310.9
1823 OFFICES DF PHYSICIANS & SURGEDNS	73,900	85,500	15.7	25,335	27,805	9.7	48,565	57,700	18.8
I824 OFF PARA-NED PERSONNEL	18,040	30.515	69.2	5,455	7,215	32.3	12,585	23,300	85.1
I825 OFFICES OF CENTISTS	37,950	47,475	25.1	10,430	11,200	7.4	27,520	36,280	31.8
I826 DIAGNOSTIC & THERAPEUTIC SERV N.E.S	19,105	48,065	151.6	3,595	9,460	163.1	15,505	38,605	149.0
1827 NISCELLANEDUS HEALTH SERVICES	13,810	8,215	-40.5	2,575	2,205	-14.4	11,240	6,005	-46.6
IB28 WELFARE ORGANIZATIONS	182,510			40,605			141,900		
MG 2-HEALTH & WELFARE SERVICES	931,765	1,066,485	14.5	200,765	219,850	9.5	731,000	846,630	15.8
IB31 RELIGIDUS DRGANIZATIDNS	67,645	73,840	9.2	34,110	37,305	9.4	33,530	36,540	9.0
MG 3-RELIGIOUS ORGANIZATIONS	67,640	73,840	9.2	34,110	37,300	9.4 -20.2	33,530 7,085	36,535 5,695	-19.6
1841 MOTION PICTURE THEATRES	13,155	10,535	-19.9	6,065	4,840		4.140	7,950	92.0
1842 NDTION PICTURE PROD. & DISTRIBUTION	9,220	18,510	100.8	5,080 3,830	10,560 3.690	107.9 -3.7	3,190	3,290	3.1
IB43 BOWLING ALLEYS & BILLIARD PARLOURS	7,020	6,980	40.8	10.800	15.600	44.4	7,170	9.710	35.4
I844 GOLF CLUBS & COUNTRY CLUBS	17,975 21.180	25,315 28.530	34.7	13,820	17.255	24.9	7,355	11,275	53.3
1845 THEATRICAL & OTH ST. ENT	91,770	91.095	-0.7	47,685	46,640	-2.2	44,085	44,450	0.8
NG 4-ANUSEMENT & RECREATION SERV	160.320	180.955	12.9	87,290	98.585	12.9	73,030	82,370	12.8
IAS1 EMPL. AGENCIES & PERSONNEL SUPPLIERS	30,820	44.420	44.1	8,685	16,130	85.7	22,140	28,290	27.8
IBS3 COMPUTER SERVICES	33,060	63,865	93.2	20,380	39,480	93.7	12,680	24,380	92.3
1855 SECURITY & INVESTIGATION SERVICES	40,675	43,335	6.5	33,790	35,190	4.1	6,885	8,150	18.4
1861 OFFICES OF ACCOUNTANTS	63,685	74,335	16.7	33,020	35,675	8.0	30,670	38,660	26.1
1862 ADVERTISING SERVICES	28,210	42,870	52.0	14,130	21,085	49.2	14,080	21,785	54.7
1863 OFFICES OF ARCHITECTS	13,465	16,685	23.9	9,860	11,745	19.1	3,600	4,945	37.4
1864 ENGINEERING & SCIENTIFIC SERVICES	112,010	116,970	4.4	84,405	88,965	5.4	27,605	28,005	1.4
1866 OFFICES OF LAWYERS & NOTARIES	78,965	94,595	19.8	29,320	33,300	13.6	49,645	61,290	23.5
1867 OFFICES OF MANAGEMENT & BUS CONSULT	28,435	40,045	40.8	15,525	21,670	39.6	12,905	18,380	42.4
1869 MISC.SERVICES TO BUSINESS MANAGEMENT	93,615	106,810	14.1	41,185	49,495	20.2	52,430	57,315	9.3
MG 5-SERVICES TO BUSINESS MANAGEMENT	522,945	643,925	23.1	290,295	352,730	21.5	232,645	291,195 945	25.2 70.3
I871 SHOE REPAIR SHOPS	2,775	3,815	37.5	2,220	2,870	29.3	555 53.375	74.375	39.3
I872 BARBER & BEAUTY SHOPS	70,595	91,985 86.810	30.3 47.6	17,220 5,630	17,610 10,855	92.8	53,200	75.960	42.8
1873 PRIVATE HOUSEHOLDS	58,830 43,170	45,720	5.9	15.350	17,205	12.1	27,820	28.515	2.5
1874 LAUND.CLEAMERAPRESSER(EXC.SELF-SERV) 1876 SELF-SERV LAUNORIES & DRY CLEAMERS	3,210	2,695	-16.0	1,130	1,025	-9.3	2,075	1,670	-19.5
1877 FUNERAL SERVICES	8,970	10,520	17.3	6,630	7,310	10.3	2,345	3,215	37.1
1879 NISCELLANEOUS PERSONAL SERVICES	22,715	55,350	143.7	5.080	6,500	28.0	17,635	48,850	177.0
NG 6-PERSONAL SERVICES	210,260	296,895	41.2	53,255	63,365	19.0	157,010	233,530	48.7
IBB1 HOTELS & MOTELS	210,420	209,835	-0.3	74,280	76,805	3.4	136,140	133,035	-2.3
IBB3 LOOGING HOUSES & RESIDENTIAL CLUBS	3,995	4,515	13.0	1,275	1,500	17.6	2,720	3,010	10.7
1884 CAMPING GROUNOS & TRAILER PARKS	16,050	22,205	38.3		12,115	46.6	7,785	10,090	29.6
1886 RESTAURANTS CATERERS & TAVERNS	548,405	649,500	18.4		255,030	25.7	345,545 492,185	394,470 540,605	14.2 9.8
MG 7-ACCOMNODATION & FOOD SERV	778,870	886,050	13.8		345,445	20.5	15.640	20,410	30.5
1891 LABOUR ORGANIZATIONS & TRADE ASSOC	30,765	37,120	20.7	15,125	16,705	10.4	10.425	10,310	-1.1
1893 PHOTOGRAPHIC SERVICES N.E.S	20,085	20,995	4.5 18.2	9,660 7,295	10,685 8,745	19.9	3,770	4,330	14.9
I894 AUTOMOBILE & TRUCK RENTAL	11,065	13,080 25,560	65.8		16.100	40.6	3,965	9,460	138.6
1895 MACHINERY & EQUIPMENT RENTAL 1896 BLACKSNITHING & WELDING SHOPS	18.870	19,875	5.3		17,595	4.9	2,100	2,285	8.8
1897 NISCELLANEOUS REPAIR SHOPS	17.305	13,870	-19.8		10.990	-19.9	3,580	2,885	-19.4
1898 SERVICES TO BUILDINGS & DWELLINGS	68,485	78,305	14.3	36.275	41,980	15.7	32,205	36,325	12.8
1899 NISCELLANEOUS SERVICES N.E.S	100.525	104,330	3.8		46,175	5.0	56,540	58,155	2.9
MG 8-NISCELLANEOUS SERVICES	282,515	313,140	10.8		168,970	9.5	128,225	144,170	12.4
OIV10-COMMUNITY BUS. &PERS. SER. IND	3,793,280	4,345,510		1,447,100		13.3	2,346,175	2,705,450	15.3
1902 DEFENCE SERVICES	129,750	146,245	12.7		115,615	10.9	25,545	30,630	19.9
1909 OTHER FEDERAL ADMINISTRATION	280,430	280,615	0.1		144,080	-2.0	133,460	136,535	2.3 5.1
MG1-FEDERAL ADMINISTRATION	410,180	426,860	4.1		259,700	3.4	159,005	167,165 149,205	12.7
1931 PROVINCIAL AONINISTRATION	284,700	305,885	7.4		156,675	2.9	132,405	149,205	12.7
MG 2-PROVINCIAL ADMINISTRATION	284,700	305,885	7.4		156,680 187.050	0.7	76,425	101,035	32.2
1951 LOCAL ADMINISTRATION	262,255	288,085	9.8		187,050	0.7	76,425	101,030	32.2
NG 3-LOCAL ADMINISTRATION	262,255 2,165	288,080 1,800	9.8		760	-16.0	1,255	1.035	-17.5
1991 OTHER GOVERNMENT OFFICES	2,165	1,795	-17.1		760	-16.0	1,255	1,035	-17.5
MS 4-OTHER GOVT OFFICES	959.290	1.022.625	6.6		604.185	2.4	369,095	418,435	13.4
IMBUSTRY UNSPECIFIED OR UNDEFINED	493,835	521.875	5.7		277,070	2.7	224,165	244,805	9.2

APPENDIX B

1970 STANDARD INDUSTRIAL CLASSIFICATION (SIC) DETAILED LEGEND



LIST OF DIVISIONS, MAJOR GROUPS AND CLASSES.

DIVISION 1 (001-021) - AGRICULTURE

Major Group 1/2 (001-019) Farms 001-019 Farms

Major Group 3 (021) Services incidental to agriculture

021 Services incidental to agriculture

DIVISION 2 (031-039) - FORESTRY

Major Group 1 (031) Logging 031 Logging

Major Group 2 (039) Forestry services 039 Forestry services

DIVISION 3 (041-047) - FISHING AND TRAPPING

Major Group 1 (041) Fishing 041 Fishing

Major Group 2 (045) Fishery services 045 Fishery services

Major Group 3 (047) Hunting and trapping Hunting and trapping

DIVISION 4 (051-099) - MINES (INCLUDING MILLING), QUARRIES AND OIL WELLS

Major Group 1 (051-059) Metal mines

- 051 Placer gold mines
- 052 Gold quartz mines
- 057 Uranium mines
- 058 Iron mines
- 059 Miscellaneous metal mines

Major Group 2 (061-064) Mineral fuels

- 061 Coal mines
- Crude petroleum and natural gas 064 industry

Major Group 3 (071-079) Non-metal mines

- (except coal mines)
 - Asbestos mines 071 072 Peat extraction

 - 073 Gypsum mines
 - 079 Miscellaneous non-metal mines

Major Group 4 (083-087) Quarries and sand pits

- 083 Stone quarries
- 087 Sand pits or quarries

Major Group 5 (096-099) Services incidental to mining

- 960 Contract drilling for petroleum
- 098 Other contract drilling
- 099 Miscellaneous services incidental to mining

DIVISION 5 (101-399) - MANUFACTURING INDUSTRIES

Major Group 1 (101-109) Food and beverage industries

- 101 Meat and poultry products industries
- 102 Fish products industry
- 103 Fruit and vegetable processing industries
- 104 Dairy products industry
- 105 Flour and breakfast cereal products industry
- 106 Feed industry
- 107 Bakery products industries
- 108 Miscellaneous food industries
- 109 Beverage industries

Major Group 2 (151-153) Tobacco products industries

- 151 Leaf tobacco processors
 - Tobacco products manufacturers

Major Group 3 (162-165) Rubber and plastics products industries

- 162 Rubber products industries
- 165 Plastics fabricating industry, n.e.s.

Major Group 4 (172-179) Leather industries

- Leather tanneries
- 172 174 Shoe factories
- 175 Leather glove factories
- 179 Luggage, handbag and small leather goods manufacturers

Major Group 5 (181-189) Textile industries

- 181 Cotton varn and cloth mills
- 182 Wool yarn and cloth mills
- 183 Man-made fibre, yarn and cloth mills
- 184 Cordage and twine industry

LIST OF DIVISIONS, MAJOR GROUPS AND CLASSES

Major Group 5(181-189) Textile industries – Concluded

- 185 Felt and fibre processing mills
- 186 Carpet, mat and rug industry
- 187 Canvas products, and cotton and jute bags industries
- 188 Automobile fabric accessories industry
- industry
 189 Miscellaneous textile industries

Major Group 6 (231-239) Knitting mills

- 231 Hosiery mills
- 239 Knitting mills (except hosiery mills)

Major Group 7 (243-249) Clothing industries

- 243 Men's clothing industries
- 244 Women's clothing industries
- 245 Children's clothing industry
- 246 Fur goods industry
- 248 Foundation garment industry
- 249 Miscellaneous clothing industries

Major Group 8 (251-259) Wood industries 251 Sawmills, planing mills and shingle

- mills
- Veneer and plywood mills
 Sash, door and other millwork plants
- 256 Wooden box factories
- 258 Coffin and casket industry
- 259 Miscellaneous wood industries

Major Group 9 (261-268) Furniture and fixture industries

- 261 Household furniture manufacturers 264 Office furniture manufacturers
- 266 Miscellaneous furniture and fixtures
- manufacturers
- 268 Electric lamp and shade manufacturers

Major Group 10 (271-274) Paper and allied industries

- 271 Pulp and paper mills
- 272 Asphalt roofing manufacturers
- 272 Asphalt rooting manufacturers 273 Paper box and bag manufacturers
- 274 Miscellaneous paper converters

Major Group 11 (286-289) Printing, publishing and allied industries

- 286 Commercial printing
- 287 Platemaking, typesetting and trade bindery industry

- 288 Publishing only
- 289 Publishing and printing

Major Group 12 (291-298) Primary metal industries

- 291 Iron and steel mills
- 292 Steel pipe and tube mills
- 294 Iron foundries
- 295 Smelting and refining
- 296 Aluminum rolling, casting and extruding
- 297 Copper and copper alloy rolling,
 - 298 Metal rolling, casting and extruding n.e.s.

Major Group 13 (301-309) Metal fabricating industries (except machinery and transportation equipment industries)

- 301 Boiler and plate works
- 302 Fabricated structural metal industry
- 303 Ornamental and architectural metal industry 304 Metal stamping, pressing and coating
- industry
 305 Wire and wire products
- 305 Wire and wire products manufacturers
- 306 Hardware, tool and cutlery manufacturers
- 307 Heating equipment manufacturers
- 308 Machine shops 309 Miscellaneous metal fabricating
- industries

Major Group 14 (311-318) Machinery industries (except electrical machinery)

- 311 Agricultural implement industry 315 Miscellaneous machinery and
- equipment manufacturers
 316 Commercial refrigeration and air
- conditioning equipment manufacturers
 318 Office and store machinery
- manufacturers

 Major Group 15 (321-329) Transportation

Major Group 15 (321-329) Transportation equipment industries

- 321 Aircraft and aircraft parts manufacturers
 - manulacturers
 323 Motor vehicle manufacturers
 - 323 Motor vehicle manufacturers
 - 324 Truck body and trailer manufacturers 325 Motor vehicle parts and accessories
 - 25 Motor vehicle parts and accessories manufacturers

LIST OF DIVISIONS, MAJOR GROUPS AND CLASSES

Major Group 15 (321-329) Transportation equipment industries - Concluded

- 326 Railroad rolling stock industry
- 327 Shipbuilding and repair
- 328 Boatbuilding and repair
- 329 Miscellaneous vehicle manufacturers

Major Group 16 (331-339) Electrical products industries

- 331 Manufacturers of small electrical appliances
- 332 Manufacturers of major appliances (electric and non-electric)
- 333 Manufacturers of lighting fixtures
- .334 Manufacturers of household radio and television receivers
- 335 Communications equipment
- manufacturers 336 Manufacturers
- 336 Manufacturers of electrical industrial equipment
 338 Manufacturers of electric wire and
- 338 Manufacturers of electric wire and cable
- cable
 339 Manufacturers of miscellaneous electrical products

Major Group 17 (351-359) Non-metallic mineral products industries

- 351 Clay products manufacturers
- 352 Cement manufacturers 353 Stone products manufacturers
- 354 Concrete products manufacturers
- 354 Concrete products manufacturers 355 Ready-mix concrete manufacturers
- 356 Glass and glass products
- 357 Abrasives manufacturers 358 Lime manufacturers
- 359 Miscellaneous non-metallic mineral
- products industries

Major Group 18 (365-369) Petroleum and coal products industries

- 365 Petroleum refineries
- 369 Miscellaneous petroleum and coal products industries

Major Group 19 (372-379) Chemical and chemical products industries

- 372 Manufacturers of mixed fertilizers
- 373 Manufacturers of plastics and synthetic resins

- 374 Manufacturers of pharmaceuticals and medicines
- 375 Paint and varnish manufacturers 376 Manufacturers of soap and cleaning
- compounds
- 377 Manufacturers of toilet preparations
 378 Manufacturers of industrial chemicals
- 378 Manufacturers of industrial chemicals 379 Miscellaneous chemical industries

Major Group 20 (391-399) Miscellaneous manufacturing industries

- 391 Scientific and professional equipment industries
- 392 Jewellery and silverware industry
 393 Sporting goods and toy industries
- 397 Signs and displays industry
- 399 Miscellaneous manufacturing industries. n.e.s.

DIVISION 6 (404-421) - CONSTRUCTION INDUSTRY

Major Group 1 (404-409) General contractors

- 404 Building construction
- 406 Highway, bridge and street
- 409 Other construction

Major Group 2 (421) Special-trade contractors

421 Special-trade contractors

DIVISION 7 (501-579) - TRANSPORTATION, COMMUNICATION AND OTHER UTILITIES

Major Group 1 (501-519) Transportation

- 501 Air transport
- 502 Services incidental to air transport
- 503 Railway transport
- 504 Water transport
- 505 Services incidental to water transport 506 Moving and storage, used goods,
- uncrated
- 507 Other truck transport
- 508 Bus transport, interurban and rural
- 509 Urban transit systems

LIST OF DIVISIONS, MAJOR GROUPS AND CLASSES

Major Group 1 (501-519) Transportation -Concluded

- 512 Taxicab operations
- 515 Pipeline transport
- 516 Highway and bridge maintenance
- 517 Miscellaneous services incidental to transport
- 519 Other transportation

Major Group 2 (524-527) Storage

- 524 Grain elevators
 - 527 Other storage and warehousing

Major Group 3 (543-548) Communication

- Radio and television broadcasting
- 544 Telephone systems
- 545 Telegraph and cable systems
- 548 Post Office

Major Group 4 (572-579) Electric power, gas and water utilities

- 572 Electric power
- 574 Gas distribution
 - 576 Water systems
 - 579 Other utilities

DIVISION 8 (602-699) - TRADE

Major Group 1 (602-629) Wholesale trade

- 602 Farm products
- 606 Coal and coke
- 608 Petroleum products
- Paper and paper products 611
- 612 General merchandise
- 614
- 615 Tobacco products
- 616 Drugs and toilet preparations
- Apparel and dry goods 617
- 618 Household furniture and furnishings
- Motor vehicles and accessories 619
- 621 Electrical machinery, equipment and supplies
- 622 Farm machinery and equipment
- 623 Machinery and equipment, n.e.s.
- 624 Hardware, plumbing and heating equipment
- Metal and metal products, n.e.s. 625
- 626 Lumber and building materials
- 627 Scrap and waste materials
- 629 Wholesalers, n.e.s.

Major Group 2 (631-699) Retail trade

- 631 Food stores
 - 642 General merchandise stores
 - 652 Tire, battery and accessories stores
 - 654 Gasoline service stations
 - 656 Motor vehicle dealers
 - 658 Motor vehicle repair shops
 - 663 Shoe stores
 - 665 Men's clothing stores
 - 667 Women's clothing stores 669 Clothing and dry goods stores, n.e.s.
 - 673 Hardware stores 676 Household furniture and appliance
- stores 678 Radio, television and electrical
 - appliance repair shops
- 681 Drug stores
- 691 Book and stationery stores
- 692 Florists' shops
- 694 Jewellery stores
- 695 Watch and jewellery repair shops
- 696 Liquor, wine and beer stores
- 697 Tobacconists Retail stores, n.e.s. 699

DIVISION 9 (701-737) - FINANCE. INSURANCE AND REAL ESTATE

Major Group 1 (701-707) Finance industries

- Banks and other deposit accepting 701 establishments
- Other credit agencies
- 705 Security brokers and dealers
 - (including exchanges)
- Investment and holding companies 707

Major Group 2 (721) Insurance carriers

721 Insurance carriers

Major Group 3 (735-737) Insurance agencies and real estate industry

- 735 Insurance and real estate agencies

737 Real estate operators

DIVISION 10 (801-899) - COMMUNITY. BUSINESS AND PERSONAL SERVICE INDUSTRIES

Major Group 1 (801-809) Education and

related services 801 Kindergartens and nursery schools

LIST OF DIVISIONS, MAJOR GROUPS AND CLASSES

Major Group 1 (801-809) Education and related services - Concluded 802 Elementary and secondary schools

- 802 Elementary and secondary schools 803 Schools of art and of the performing arts
- 804 Vocational centres, trade schools and business colleges
- 805 Post-secondary non-university educational institutions
- 806 Universities and colleges
- 807 Libraries, museums and other
- $809 \quad Education \ and \ related \ services, \ n.e.s.$

Major Group 2 (821-828) Health and welfare services

- 821 Hospitals
- 822 Related health care institutions
- 823 Offices of physicians and surgeons 824 Offices of para-medical personnel
 - (practitioners)
- 825 Offices of dentists
 826 Diagnostic and therapeutic services,
- n.e.s. 827 Miscellaneous health services
- 828 Welfare organizations

Major Group 3 (831) Religious organizations

831 Religious organizations

Major Group 4 (841-849) Amusement and recreation services

- 841 Motion picture theatres
- 842 Motion picture production and distribution
- 843 Bowling alleys and billiard parlours 844 Golf clubs and country clubs
- 844 Golf clubs and country clubs 845 Theatrical and other staged
- entertainment services

 849 Miscellaneous amusement and
- recreation services

Major Group 5 (851-869) Services to business management

- 851 Employment agencies and personnel suppliers
- 853 Computer services
- 855 Security and investigation services
- 861 Offices of accountants

862 Advertising services

- 863 Offices of architects
- 864 Engineering and scientific services
- 866 Offices of lawyers and notaries 867 Offices of management and business
- consultants
 869 Miscellaneous services to business
 management

Major Group 6 (871-879) Personal services

- 871 Shoe repair shops
- 872 Barber and beauty shops
- 873 Private households
- 874 Laundries, cleaners and pressers (except self-service)
- 876 Self-service laundries and dry cleaners
- 877 Funeral services
- 879 Miscellaneous personal services

Major Group 7 (881-886) Accommodation and food services

- 881 Hotels and motels
- 883 Lodging houses and residential clubs
- 884 Camping grounds and trailer parks
- 886 Restaurants, caterers and taverns

Major Group 8 (891-899) Miscellaneous services

- 891 Labour organizations and trade associations
- 893 Photographic services, n.e.s.
- 894 Automobile and truck rental 895 Machinery and equipment rental
- 896 Blacksmithing and welding shops
- 897 Miscellaneous repair shops 898 Services to buildings and dwellings
- 898 Services to buildings and dwellings 899 Miscellaneous services, n.e.s.

DIVISION 11 (902-991) - PUBLIC ADMINISTRATION AND DEFENCE

Major Group 1 (902-909) Federal administration

- 902 Defence services
- 909 Other federal administration

Major Group 2 (931) Provincial administration

931 Provincial administration

LIST OF DIVISIONS, MAJOR GROUPS AND CLASSES

Major Group 3 (951) Local administration 951 Local administration

Major Group 4 (991) Other government offices

991 Other government offices

DIVISION 12 - INDUSTRY UNSPECIFIED OR UNDEFINED

n.e.s. = not elsewhere specified

APPENDIX C

1980 STANDARD INDUSTRIAL CLASSIFICATION (SIC) DETAILED LEGEND



LIST OF DIVISIONS, MAJOR GROUPS, AND GROUPS			
DIVISION A - AGRICULTURAL AND RELATED SERVICE INDUSTRIES Major Group 01 - Agricultural Industries			ajor Group 07 - Crude Petroleum and Natural Gas Industries
		071	Crude petroleum and natural gas industries
011-017	Agricultural industries		
Major Group 02 - Service Industries Incidental to Agriculture			ajor Group 08 - Quarry and Sand Pit Industries Stone quarries
021-023	Service industries incidental to agriculture	082	Sand and gravel pits
DIVISIO	ON B - FISHING AND TRAPPING	1	ajor Group 09 - Service Industries Incidental to Mineral Extraction

INDUSTRIES

Major Group 03 - Fishing and Trapping Industries

031 Fishing industries 032 Services incidental to fishing

033 Trapping

DIVISION C - LOGGING AND FORESTRY INDUSTRIES

Major Group 04 - Logging Industry

041 Logging industry

Major Group 05 - Forestry Services Industry

Forestry services industry 051

DIVISION D. MINING (INCLUDING MILLING), QUARRYING AND OIL WELL INDUSTRIES

Major Group 06 - Mining Industries

061	Metal mines
062	Non-metal mines (except coal)
063	Coal mines

Service industries incidental to crude 091

petroleum and natural gas Service industries incidental to 092 mining

DIVISION E - MANUFACTURING INDUSTRIES

Major Group 10 - Food Industries

101	Meat and poultry products industries
102	Fish products industry
103	Fruit and vegetable industries
104	Dairy products industries
105	Flour, prepared cereal food and feed
	industries
106	Vegetable oil mills (except corn oil)
107	Bakery products industries
108	Sugar and sugar confectionery
	industries

Major Group 11 - Beverage Industries

Other food products industries

111	Soft drink industry
112	Distillery products industry
113	Brewery products industry
114	Wine industry

109

Major Group 12 - Tobacco Products		Major Group 24 - Clothing Industries		
In	dustries	243	Men's and boys' clothing industries	
121	Leaf tobacco industry	244	Women's clothing industries	
122	Tobacco products industry	245	Children's clothing industry	
		249	Other clothing and apparel industries	
	or Group 15 - Rubber Products			
In	dustries	Ма	jor Group 25 - Wood Industries	
151	Tire and tube industry	251	Sawmill, planing mill and shingle	
152	Rubber hose and belting industry	0	mill products industries	
159	Other rubber products industries	252	Veneer and plywood industries	
		254	Sash, door and other millwork	
			industries	
	or Group 16 - Plastic Products	256	Wooden box and pallet industry	
In	dustries	258	Coffin and casket industry	
161	Foamed and expanded plastic	259	Other wood industries	
101	products industry			
162	Plastic pipe and pipe fittings industry			
163	Plastic film and sheeting industry	Ma	jor Group 26 - Furniture and	
169	Other plastic products industries	I	Fixture Industries	
		261	Household furniture industries	
	. C 15. T	264	Office furniture industries	
	or Group 17 - Leather and lied Products Industries	269	Other furniture and fixture industries	
171	Leather and allied products			
industries		Major Group 27 - Paper and Allied		
		I	Products Industries	
Maic	or Group 18 - Primary Textile	271	Pulp and paper industries	
	dustries	272	Asphalt roofing industry	
		273	Paper box and bag industries	
181	Man-made fibre and filament yarn industry	279	Other converted paper products industries	
182	Spun yarn and woven cloth industries		11144001100	
183	Broad knitted fabric industry			
		Ма	jor Group 28 - Printing, Publishing and	
Mair	or Group 19 - Textile Products		Allied Industries	
	dustries			
	austrios	281	Commercial printing industries	
191	Natural fibres processing and felt	282	Platemaking, typesetting and bindery	
	products industry		industry	
192	Carpet, mat and rug industry	283	Publishing industries	
193	Canvas and related products industry	284	Combined publishing and printing	
199	Other textile products industries		industries	
	•			

Major Group 29 - Primary Metal		Major Group 32 - Transportation		
Industries		Equipment Industries		
291	Primary steel industries	321	Aircraft and aircraft parts industry	
292	Steel pipe and tube industry	323	Motor vehicle industry	
294	Iron foundries	324	Truck and bus body and trailer	
295	Non-ferrous metal smelting and		industries	
	refining industries	325	Motor vehicle parts and accessories	
296	Aluminum rolling, casting and		industries	
	extruding industry	326	Railroad rolling stock industry	
297	Copper and copper alloy rolling,	327	Shipbuilding and repair industry	
	casting and extruding industry	328	Boatbuilding and repair industry	
299	Other rolled, cast and extruded non-	329	Other transportation equipment	
200	ferrous metal products industries		industries	
	ierrous metar products madsures			
		Ma	ajor Group 33 - Electrical and	
	The state of the s		Electronic Products Industries	
N	Iajor Group 30 - Fabricated Metal		Electronic Products industries	
	Products Industries (Except	331	Small electrical appliance industry	
	Machinery and Transportation		Major appliance industry (electric and	
	Equipment Industries)	332	non-electric)	
301	Power boiler and heat exchanger	333	Electric lighting industries	
	industry	334	Record player, radio and television	
302	Fabricated structural metal products		receiver industry	
002	industries	335	Communication and other electronic	
303	Ornamental and architectural metal		equipment industries	
303	products industries	336	Office, store and business machine	
304	Stamped, pressed and coated metal		industries	
304	products industries	337	Electrical industrial equipment	
305	Wire and wire products industries		industries	
306	Hardware, tool and cutlery industries	338	Communications and energy wire and	
307	Heating equipment industry		cable industry	
	Machine shop industry	339	Other electrical products industries	
308	Other metal fabricating industries			
309	Other metal labricating industries			
			ajor Group 35 - Non-Metallic Mineral Products Industries	
			Mimeral Froducts industries	
N	Iajor Group 31 - Machinery	351	Clay products industries	
	Industries (Except Electrical	352	Hydraulic cement industry	
	Machinery)	354	Concrete products industries	
	•	355	Ready-mix concrete industry	
311	Agricultural implement industry	356	Glass and glass products industries	
312	Commercial refrigeration and air	357	Abrasives industry	
312	conditioning equipment industry	358	Lime industry	
319	Other machinery and equipment	359	Other non-metallic mineral products	
319	industries	303	industries	
	maasa ies			

	ajor Group 36 - Refined Petroleum and Coal Products Industries	Ĥ	jor Group 41 - Industrial and Ieavy (Engineering) Construction Industries
361	Refined petroleum products industries	411	Industrial construction (other than
369	Other petroleum and coal products industries	412	buildings) Highway and heavy construction
	ajor Group 37 - Chemical and	Ma	jor Group 42 - Trade Contracting
	Chemical Products Industries		ndustries
371	Industrial chemicals industries, n.e.c.	421	Site work
372	Agricultural chemical industries	422	Structural and related work
373	Plastic and synthetic resin industry	423	Exterior close-in work
374	Pharmaceutical and medicine industry	424	Plumbing, heating and air conditioning, mechanical work
375	Paint and varnish industry	425	Mechanical specialty work
376	Soap and cleaning compounds	426	Electrical work
377	industry Toilet preparations industry	427	Interior and finishing work
379	Other chemical products industries	429	Other trade work
	ajor Group 39 - Other Manufacturing		jor Group 44 - Service Industries ncidental to Construction
	Industries	441	Project management, construction
		449	Other services incidental to
391	Scientific and professional equipment industries		construction
392	Jewellery and precious metal industries		
393	Sporting goods and toy industries		ION G - TRANSPORTATION AND
397 399	Sign and display industry Other manufactured products industries	STOR	AGE INDUSTRIES
	industries	M a	jor Group 45 - Transportation Industries
DIVIS	SION F - CONSTRUCTION	451	Air transport industries
	STRIES	452	Service industries incidental to air transport
		453	Railway transport and related service
M	ajor Group 40 - Building,		industries
	Developing and General	454	Water transport industries
	Contracting Industries	455	Service industries incidental to water transport
401	Residential building and development	456	Truck transport industries
402	Non-residential building and development	457	Public passenger transit systems industries
	•		

Other transportation industries DIVISION I - WHOLESALE TRADE 458 INDUSTRIES 459 Other service industries incidental to transportation Major Group 50 - Farm Products Industries, Wholesale Major Group 46 - Pipeline Transport Industries 501 Farm products, wholesale Pipeline transport industries 461 Major Group 51 - Petroleum Products Major Group 47 - Storage and Industries, Wholesale Warehousing Industries Petroleum products, wholesale 511 471 Grain elevator industry 479 Other storage and warehousing industries Major Group 52 - Food, Beverage, Drug and Tobacco Industries. Wholesale DIVISION H. COMMUNICATION AND Food, wholesale 521 OTHER UTILITY INDUSTRIES 522 Beverages, wholesale 523 Drugs and toilet preparations, wholesale 524 Tobacco products, wholesale Major Group 48 - Communication Industries 481 Telecommunication broadcasting Major Group 53 - Apparel and Dry Goods Industries, Wholesale industries 482 Telecommunication carriers industry 483 Other telecommunication industries 531 Apparel, wholesale 484 Postal and courier service industries Dry goods, wholesale 532 Major Group 49 - Other Utility Major Group 54 - Household Goods Industries Industries, Wholesale Electric power systems industry 541 Electrical and electronic household 491 492 Gas distribution systems industry appliances and parts, wholesale Water systems industry 493 542 Household furniture, wholesale 499 Other utility industries, n.e.c. 543 Household furnishings, wholesale

	ajor Group 55 - Motor Vehicle, Parts and Accessories Industries, Wholesale	595 596 597	Photographic equipment and musical instruments and supplies, wholesale Jewellery and watches, wholesale
551	Matan wahialaa whalaaala	391	Industrial and household chemicals, wholesale
552	Motor vehicles, wholesale Motor vehicle parts and accessories,	598	Wholesale General merchandise, wholesale
332	wholesale	599	Other products, n.e.c., wholesale
	wholesale	333	Other products, n.e.c., wholesale
	ajor Group 56 - Metals, Hardware, Plumbing, Heating and Building Materials Industries, Wholesale	DIVIS	SION J - RETAIL TRADE INDUSTRIES
561 562	Metal and metal products, wholesale Hardware and plumbing, heating and		ajor Group 60 - Food, Beverage and Drug Industries, Retail
	air conditioning equipment and	601	Food stores
563	supplies, wholesale Lumber and building materials,	602	Liquor, wine and beer stores
363	wholesale	603	Prescription drugs and patent medicine stores
	ajor Group 57 - Machinery, Equipment and Supplies Industries, Wholesale		
571	Farm machinery, equipment and supplies, wholesale		ajor Group 61 - Shoe, Apparel, Fabric and Yarn Industries, Retail
572	Construction, forestry and mining	611	Shoe stores
	machinery, equipment and supplies,	612	Men's clothing stores
573	wholesale	613	Women's clothing stores
5/3	Industrial machinery, equipment and supplies, wholesale	614	Clothing stores, n.e.c.
574	Electrical and electronic machinery.	615	Fabric and yarn stores
014	equipment and supplies, wholesale		
579	Other machinery, equipment and supplies, wholesale		
	yor Group 59 - Other Products Industries, Wholesale	1	ajor Group 62 - Household Furniture, Appliances and
		1	Furnishings Industries, Retail
591	Waste materials, wholesale	001	TT 1 110 %
592	Paper and paper products, wholesale	621	Household furniture stores
593	Agricultural supplies, wholesale	622	Appliance, television, radio and stereo stores
594	Toys, amusement and sporting goods, wholesale	623	Household furnishings stores

	ijor Group 63 - Automotive Vehicles, Parts and Accessories Industries, Sales and Service		ON K - FINANCE AND NCE INDUSTRIES
631 632 633 634 635 639	Automobile dealers Recreational vehicle dealers Gasoline service stations Automotive parts and accessories stores Motor vehicle repair shops Other motor vehicle services		or Group 70 - Deposit Accepting termediary Industries Deposit accepting intermediary industries
Ma	ajor Group 64 - General Retail Merchandising Industries	Bu	or Group 71 - Consumer and Isiness Financing termediary Industries
641	General merchandise stores	711-712	Consumer and business financing intermediary industries
	ajor Group 65 - Other Retail Store		
	Industries		G -0 *
	Book and stationery stores		or Group 72 - Investment
651 652	Florists, lawn and garden centres	in	termediary Industries
653	Hardware, paint, glass and	721-729	Investment intermediary
000	wallpaper stores	121-123	industries
654	Sporting goods and bicycle shops		made io
655	Musical instrument and record stores		
656	Jewellery stores and watch and		
	jewellery repair shops		
657	Camera and photographic supply		r Group 73 - Insurance
050	stores Toy, hobby, novelty and souvenir	In	dustries
658	stores	501 500	
659	Other retail stores	731-733	Insurance industries
	ajor Group 69 - Non-Store Retail Industries		or Group 74 · Other Financial termediary Industries
691	Vending machine operators	741-749	Other financial intermediary

Major Group 82 - Provincial and Territorial Government

DIVISION L - REAL ESTATE OPERATOR

AND INSURANCE AGENT INDUSTRIES

		Se	ervice Industries
Ŏı	or Group 75 - Real Estate perator Industries (Except evelopers)	822-827	Provincial and territorial government service industries
751 759	Operators of buildings and dwellings Other real estate operators		or Group 83 - Local Government ervice Industries
		832-837	Local government service
	or Group 76 - Insurance and eal Estate Agent Industries		
761	Insurance and real estate agencies	Ŏ:	or Group 84 - International and ther Extra-Territorial overnment Service Industries
DIVISIO INDUST	ON M - BUSINESS SERVICE RIES	841	International and other extra- territorial agencies
	or Group 77 - Business Service dustries	DIVISIO	ON O - EDUCATIONAL SERVICE TRIES
771 772	Employment agencies and personnel suppliers Computer and related services		or Group 85 - Educational ervice Industries
773 774 775	Accounting and bookkeeping services Advertising services Architectural, engineering and other	851 852	Elementary and secondary education Post-secondary non-university education
776 777	scientific and technical services Offices of lawyers and notaries Management consulting services	853 854 855	University education Library services Museums and archives
779	Other business services	859	Other educational services
DIVISIO INDUST	ON N - GOVERNMENT SERVICE PRIES		ONP-HEALTH AND SOCIAL CE INDUSTRIES
	or Group 81 - Federal Government rvice Industries		or Group 86 - Health and Social ervice Industries
811 812-817	Defence services Other federal government service industries	861 862	Hospitals Other institutional health and social services

863	Non-institutional health services	-
864	Non-institutional social services	
865	Offices of physicians, surgeons and	
	dentists, private practice	
866	Offices of other health practitioners	
867	Offices of social services practitioners	
868	Medical and other health laboratories	
869	Health and social service associations	
000	and agencies	
	SION Q - ACCOMMODATION, FOOD BEVERAGE SERVICE INDUSTRIES	
Mε	ajor Group 91 - Accommodation	
	Service Industries	
911	Hotels, motels and tourist courts	
912	Lodging houses and residential clubs	
913	Camping grounds and travel trailer	
	parks	
914	Recreation and vacation camps	
	ajor Group 92 - Food and Beverage Service Industries	
921	Food services	
922	Taverns, bars and night clubs	
322	raverns, bars and might crubs	
	TION R - OTHER SERVICE STRIES	
Ma	ijor Group 96 - Amusement and	
	Recreational Service Industries	
961	Motion picture, audio and video	
	production and distribution	
962	Motion picture exhibition	
963	Theatrical and other staged	
	entertainment services	
964	Commercial spectator sports	
965	Sports and recreation clubs and	
- 00		

966

969

Gambling operations

services

Other amusement and recreational

Major Group 97 - Personal and Household Service Industries 971 Barber and beauty shops 972 Laundries and cleaners 973 Funeral services

974 Private households 979 Other personal and household services

Major Group 98 - Membership Organization Industries

301	nengious organizations
982	Business associations
983	Professional membership associations
984	Labour organizations
985	Political organizations
986	Civic and fraternal organizations

Major Group 99 - Other Service Industries

991	Machinery and equipment rental and
	leasing services
992	Automobile and truck rental and
	leasing services
993	Photographers
994	Other repair services
995	Services to buildings and dwellings
996	Travel services
999	Other services, n.e.c.



APPENDIX D OTHER INDUSTRY DATA PRODUCTS



OTHER INDUSTRY DATA PRODUCTS

There are several other products from the 1986 Census which contain industry data. These include:

NATION SERIES

 Mobility Status and Interprovincial Migration (Catalogue No. 93-108)

This publication presents data on the mobility status of Canadian residents. The focus is on the demographic, educational and employment characteristics of interprovincial migrants 15 years and over. The components (in, out and net) of interprovincial migration are also shown. Included are counts of the labour force 15 years and over by industry divisions, for Canada, the provinces and the territories.

- Industry (Catalogue No. 93-113)

Industry data for members of the labour force 15 years and over by age, sex and selected labour characteristics are presented for Canada, the provinces and the territories. Data are based on the 1980 Standard Industrial Classification.

DIMENSION SERIES

Industry Trends, 1951-1986 (Catalogue No. 93-152)

This publication provides data on industry rends from 1951-1986 for the labour force 15 years and over by sex, for Canada, the provinces and the territories. All tables are based on the 1970 version of the Standard Industrial Classification (SIC). For purposes of comparability, the data processed for the 1951 and 1961 Censuses have been manually adjusted to the 1970 SIC by the use of conversion charts created by comparing classification manuals used in these census vars. Data for 1971, 1981 and 1986 are processed based on the 1970 SIC and no post-census data adjustments were required.

Census Metropolitan Areas (Catalogue No. 93-156)

This publication provides data covering a wide range of census variables for the 25 census metropolitan areas (large urban centres) in Canada. Included are counts of the labour force 15 years and over for 60 selected industries. Data are provided from both the 1981 and 1986 Censuses, including percentage change from 1981–1986. Data are based on the 1970 Standard Industrial Classification

PROFILE SERIES

This series includes industry data, as well as information on a wide range of other census variables. Data are presented for a variety of subprovincial areas: Census Divisions and Subdivisions (94-101 to 94-124), Federal Electoral Districts (94-125, 94-126, 94-133 and 94-134), Census Metropolitan Areas and Census Agglomerations (94-127 and 94-128), Censustracted Centres (Census Tracts and Component Subdivisions) (95-101 to 95-174), Urban and Rural Areas (94-129 and 94-130) and Labour Force Survey Economic Regions (94-131). Data for profiles are also available in machine-readable form.

FOCUS ON CANADA SERIES

Trends in Occupation and Industry (Catalogue No. 98-135)

This study presents an industry-occupation employment structure as revealed by the 1986 Census and includes trend analysis between 1971 and 1986. The study also examines changes in the distribution of the experienced labour force among occupations and industries between 1971 and 1986.

BASIC SUMMARY TABLES

This series is designed to meet the needs of users who wish to study the characteristics of small areas. Tables provide information on a variety of census variables. The following industry tables are available:

LF86B05 Labour force 15 years and over by industry divisions (21) (based on the 1980 classification - "Unspecified or undefined" distributed among industry divisions) and sex (3)



LF86B09 Labour force 15 years and over by industry divisions (15) (based on the 1970 classification - "Unspecified or undefined" shown as a separate division) and sex (3)

The tables are produced for the following four geographic levels: (i) enumeration areas and federal electoral districts; (ii) census subdivisions (municipalities) and census divisions (counties); (iii) census tracts and provincial census tracts; (iv) Canada, provinces, territories and census metropolitan areas

Data for the basic summary tables are available in machine-readable form to facilitate aggregation and manipulation.

REFERENCE PRODUCTS

Users, who may require assistance in understanding and interpreting the data and geographic concepts appearing in this set of tabulations, should refer to the 1986 Census Dictionary (Catalogue No. 99-101E or F). The Dictionary provides a range of definitions for all variables and terms used in 1986 Census data products.

Further details on the products and services available from the census are provided in the 1986 Census Products and Services - Final Edition (Catalogue No. 99-103E or F).

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